



ACOUSTIC
COMPONENTS
MANUFACTURER



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COMPONENTI ELETTRONICI
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hunston.com.hk



We are

Hunston was founded in Hong Kong, we believe solving customers' problems is the only way to bring long-term benefits to both parties. We are committed to becoming the world's leading supplier of acoustic components through professional services and an extensive product line.

Hunston was established in 2012 and specializes in acoustic components with manufacturing plants located in China's Jiangsu, Guangdong, and Shandong provinces. Our products include a buzzer, speaker, microphone, receiver, piezoelectric and ultrasonic products. In addition, due to the market demand, Hunston has been developing more product categories to meet customers.

We know customer's needs for a fast and stable supply chain, reasonable and competitive prices, and attentive and professional services.

Therefore Hunston has been expanding its sales and engineering team to assist customers solving their design and operation problems, bringing them the best quality services and products.

What we do?

We specialize production, development and design of acoustic components. And provide sound solutions and acoustic component OEM services for customer.

Our Product

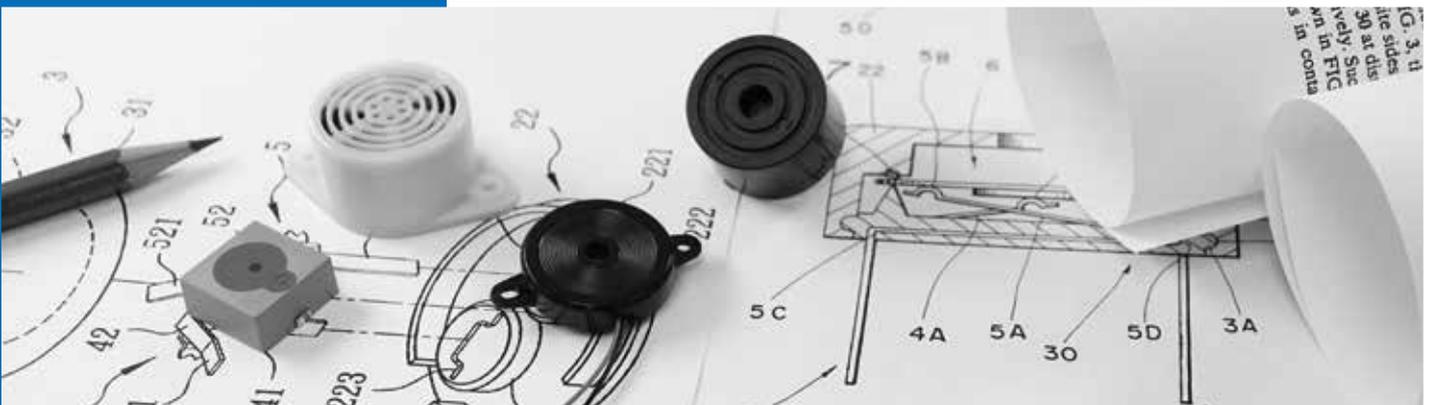
- Buzzer
- Transducer
- Piezo Element
- Microphone
- Speaker
- Receiver
- Ultrasonic Product
- OEM / ODM services

Why Us?

- Product Line Completely
- Highly Customized Solutions
- RoHS / REACH Compliant
- Product Warranty
- Secondary IQC By HK Engineers
- PCN / EOL Notification
- NG Analysis Report
- Response Quickly

Our Factory Certificate

- ISO 9001:2015 Quality Management Systems standard
- ISO 14001:2015 Environmental Management Systems
- TS16949:2009 Quality Management Systems standard



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Magnetic Buzzer 01

	Size (mm)	Height (mm)	Rated Voltage (Vdc)	Min. Sound Pressure Level (dBA)	Frequency (Hz)	Tone Nature	Page No.
MB9042-27S3P	Ø9	4.2	3	83 / 10cm	2700	Single	02
MB9042-27S5P	Ø9	4.2	5	85 / 10cm	2700	Single	02
MB9055-27S3P	Ø9	5.5	3	83 / 10cm	2700	Single	02
MB9055-27S5P	Ø9	5.5	5	85 / 10cm	2700	Single	02
MB9650-27S5P	Ø9.6	5	5	84 / 10cm	2700	Single	02
MB9650-27S12P	Ø9.6	5	12	85 / 10cm	2700	Single	02
MB9650D-27S3P	Ø9.6	5	3	85 / 10cm	2700	Single	02
MB9650D-27S5P	Ø9.6	5	5	85 / 10cm	2700	Single	02
MB1265-23S5P	Ø12	6.5	5	80 / 10cm	2300	Single	03
MB1265-23S12P	Ø12	6.5	12	80 / 10cm	2300	Single	03
MB1275-23S3P	Ø12	7.5	3	85 / 10cm	2300	Single	03
MB1275-23S5P	Ø12	7.5	5	85 / 10cm	2300	Single	03
MB1275-27S5P	Ø12	7.5	5	85 / 10cm	2700	Single	03
MB1275-27S12P	Ø12	7.5	12	85 / 10cm	2700	Single	03
MB1275-31S3P	Ø12	7.5	3	85 / 10cm	3100	Single	03
MB1275-31S12P	Ø12	7.5	12	85 / 10cm	3100	Single	03
MB1295-23S1P	Ø12	9.5	1.5	75 / 10cm	2300	Single	03
MB1295-23S5P	Ø12	9.5	5	85 / 10cm	2300	Single	03
MB1295-23S3P6.5	Ø12	9.5	3	85 / 10cm	2300	Single	04
MB1295-23S12P6.5	Ø12	9.5	12	85 / 10cm	2300	Single	04
MB1614-23S6P	Ø16	14	6	85 / 10cm	2300	Single	04
MB1614-23S12P	Ø16	14	12	85 / 10cm	2300	Single	04
SMB8536-27S3	8.5x8.5	3.6	3	82 / 10cm	2700	Single	04
SMB9650T-27S3	9.6x9.6	5	3	83 / 10cm	2700	Single	04
SMB9650T-27S12	9.6x9.6	5	12	90 / 10cm	2700	Single	04
SMB9650TA-27S5	9.6x9.6	5.5	5	85 / 10cm	2700	Single	05
SMB9650TA-27S12	9.6x9.6	5.5	12	89 / 10cm	2700	Single	05
SMB9655-27S3	9.6x9.6	5.5	3	85 / 10cm	2700	Single	05
SMB9655-27S5	9.6x9.6	5.5	5	85 / 10cm	2700	Single	05
SMB1365T-24S3	12.8x12.8	7.1	3	83 / 10cm	2400	Single	05
SMB1365T-24S12	12.8x12.8	7.1	12	88 / 10cm	2400	Single	05
SMB1310T-23S5	12.8x12.8	10	5	85 / 10cm	2300	Single	05
SMB1310T-24S12	12.8x12.8	10	12	90 / 10cm	2400	Single	05

Magnetic Buzzer

MB9042 Series

Housing

PPO

Color

Black

Terminal

Pin

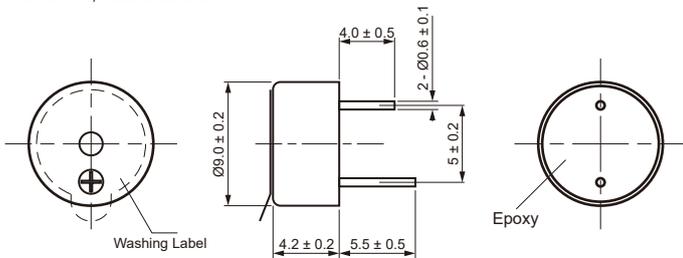
	MB9042-27S3P	MB9042-27S5P
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Operating Voltage	[Vdc]	2 ~ 5	4 ~ 7
Rated Voltage	[Vdc]	3	5
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 83 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

※ value applying rated voltage

Dimensions [size : Ø9 X 4.2 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer

MB9055 Series

Housing

PPO

Color

Black

Terminal

Pin

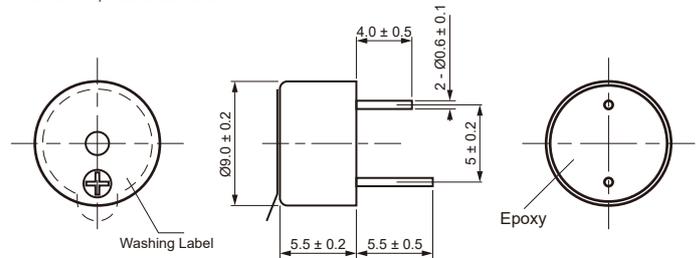
	MB9055-27S3P	MB9055-27S5P
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Operating Voltage	[Vdc]	2 ~ 5	4 ~ 7
Rated Voltage	[Vdc]	3	5
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 83 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

※ value applying rated voltage

Dimensions [size : Ø9 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer

MB9650 Series

Housing

PBT

Color

Black

Terminal

Pin

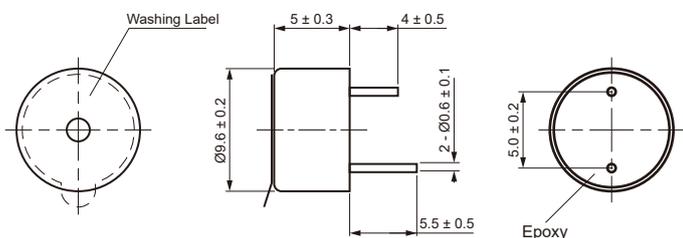
	MB9650-27S5P	MB9650-27S12P
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Operating Voltage	[Vdc]	4 ~ 7	8 ~ 15
Rated Voltage	[Vdc]	5	12
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 84 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

※ value applying rated voltage

Dimensions [size : Ø9.6 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer

MB9650D Series

Housing

PPO

Color

Black

Terminal

Pin

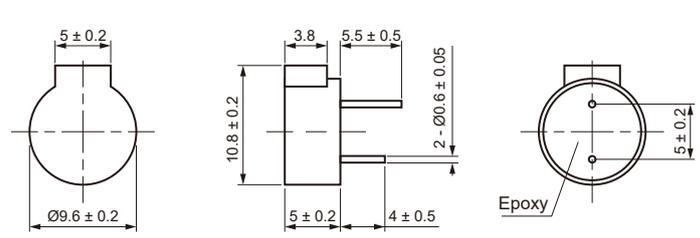
	MB9650D-27S3P	MB9650D-27S5P
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Operating Voltage	[Vdc]	2 ~ 5	4 ~ 7
Rated Voltage	[Vdc]	3	5
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

※ value applying rated voltage

Dimensions [size : Ø9.6 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer
MB1265 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

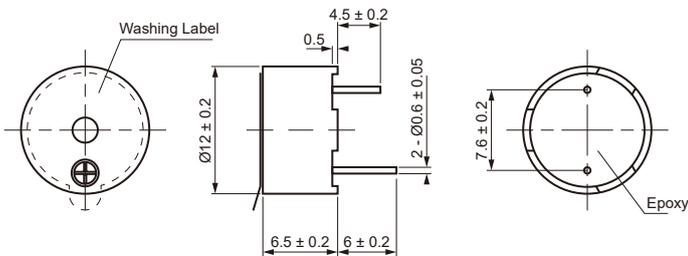
	MB1265-23S5P	MB1265-23S12P
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Operating Voltage [Vdc]	4 ~ 7	8 ~ 15
Rated Voltage [Vdc]	5	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 80 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	2	2

※ value applying rated voltage

Dimensions [size : Ø12 X 6.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer
MB1295 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

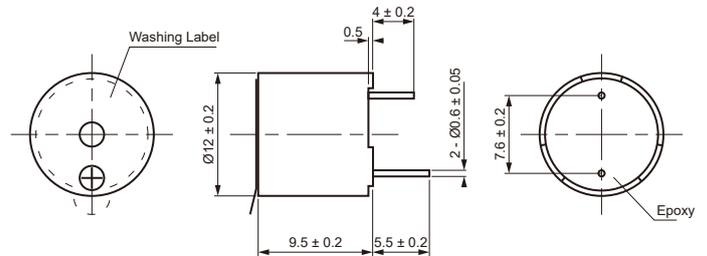
	MB1295-23S1P	MB1295-23S5P
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Operating Voltage [Vdc]	1.4 ~ 2	4 ~ 7
Rated Voltage [Vdc]	1.5	5
※ Rated Current [mA]	Max. 25	Max. 30
※ Sound Pressure Level [dBA]	Min. 75 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	2	2

※ value applying rated voltage

Dimensions [size : Ø12 X 9.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer
MB1275 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

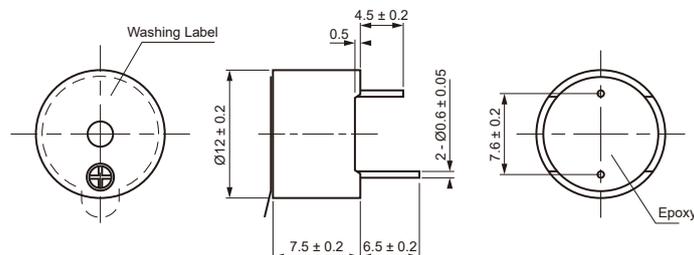
	MB1275-23S3P	MB1275-23S5P	MB1275-27S5P	MB1275-27S12P	MB1275-31S3P	MB1275-31S12P
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Operating Voltage [Vdc]	2 ~ 5	3 ~ 7	4 ~ 7	8 ~ 15	2 ~ 5	8 ~ 15
Rated Voltage [Vdc]	3	5	5	12	3	12
※ Rated Current [mA]	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 85 / 10cm	Min. 85 / 10cm	Min. 85 / 10cm	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300	2700	2700	3100	3100
Tone Nature	Single	Single	Single	Single	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70
Weight [g]	2	2	2	2	2	2

※ value applying rated voltage

Dimensions [size : Ø12 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer

MB1295 Series

Housing

PPO

Color

Black

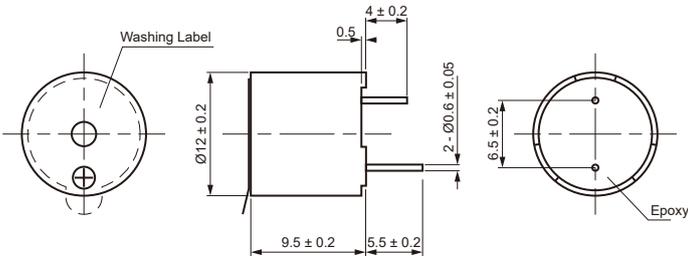
Terminal

Pin

	MB1295-23S3P6.5	MB1295-23S12P6.5
Operating Voltage [Vdc]	2 ~ 5	8 ~ 15
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	2	2

	MB1295-23S3P6.5	MB1295-23S12P6.5
Operating Voltage [Vdc]	2 ~ 5	8 ~ 15
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	2	2

※ value applying rated voltage

Dimensions [size : $\varnothing 12 \times 9.5 \text{ mm}$]Unit: mm / Tolerance $\pm 0.5 \text{ mm}$ 

Magnetic Buzzer

MB1614 Series

Housing

Noryl

Color

Black

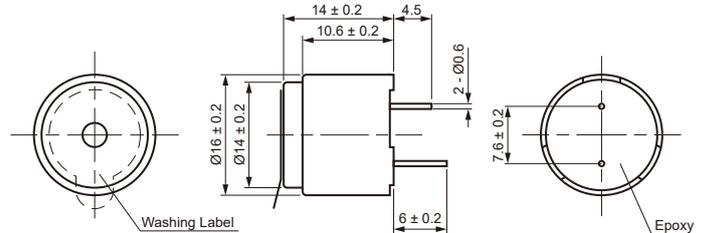
Terminal

Pin

	MB1614-23S6P	MB1614-23S12P
Operating Voltage [Vdc]	3 ~ 8	8 ~ 15
Rated Voltage [Vdc]	6	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	7	7

	MB1614-23S6P	MB1614-23S12P
Operating Voltage [Vdc]	3 ~ 8	8 ~ 15
Rated Voltage [Vdc]	6	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency [Hz]	2300	2300
Tone Nature	Single	Single
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	7	7

※ value applying rated voltage

Dimensions [size : $\varnothing 16 \times 14 \text{ mm}$]Unit: mm / Tolerance $\pm 0.5 \text{ mm}$ 

Magnetic Buzzer

SMB8536 Series

Housing

LCP

Color

Black

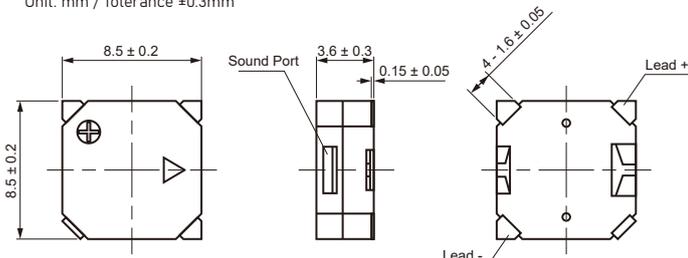
Terminal

SMT

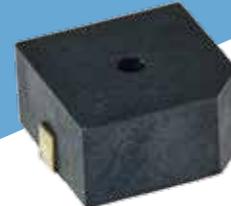
	SMB8536-27S3	SMB8536-27S12
Operating Voltage [Vdc]	2 ~ 5	8 ~ 15
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 40	Max. 30
※ Sound Pressure Level [dBA]	Min. 82 / 10cm	Min. 90 / 10cm
※ Resonant Frequency [Hz]	2700	2700
Tone Nature	Single	Single
Operating Temperature [°C]	-40 ~ +85	-20 ~ +70
Weight [g]	0.5	1.5

	SMB8536-27S3	SMB8536-27S12
Operating Voltage [Vdc]	2 ~ 5	8 ~ 15
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 40	Max. 30
※ Sound Pressure Level [dBA]	Min. 82 / 10cm	Min. 90 / 10cm
※ Resonant Frequency [Hz]	2700	2700
Tone Nature	Single	Single
Operating Temperature [°C]	-40 ~ +85	-20 ~ +70
Weight [g]	0.5	1.5

※ value applying rated voltage

Dimensions [size : $8.5 \times 8.5 \times 3.6 \text{ mm}$]Unit: mm / Tolerance $\pm 0.3 \text{ mm}$ 

Magnetic Buzzer

SMB9650T Series

Housing

PPS

Color

Black

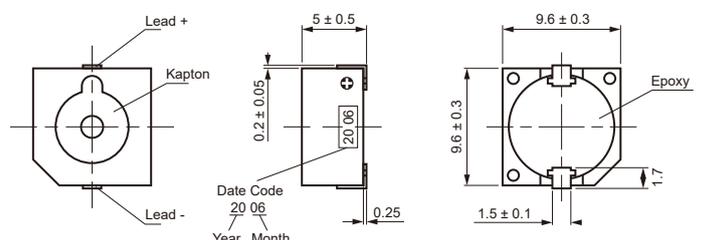
Terminal

SMT

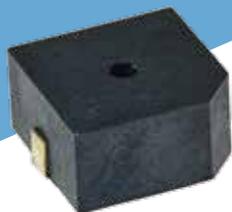
	SMB9650T-27S3	SMB9650T-27S12
Operating Voltage [Vdc]	2 ~ 5	8 ~ 16
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 83 / 10cm	Min. 90 / 10cm
※ Resonant Frequency [Hz]	2700	2700
Tone Nature	Single	Single
Operating Temperature [°C]	-40 ~ +85	-20 ~ +70
Weight [g]	1.5	1.5

	SMB9650T-27S3	SMB9650T-27S12
Operating Voltage [Vdc]	2 ~ 5	8 ~ 16
Rated Voltage [Vdc]	3	12
※ Rated Current [mA]	Max. 30	Max. 30
※ Sound Pressure Level [dBA]	Min. 83 / 10cm	Min. 90 / 10cm
※ Resonant Frequency [Hz]	2700	2700
Tone Nature	Single	Single
Operating Temperature [°C]	-40 ~ +85	-20 ~ +70
Weight [g]	1.5	1.5

※ value applying rated voltage

Dimensions [size : $9.6 \times 9.6 \times 5 \text{ mm}$]Unit: mm / Tolerance $\pm 0.3 \text{ mm}$ 

Magnetic Buzzer

SMB9650TA Series

Housing

PPS

Color

Black

Terminal

SMT

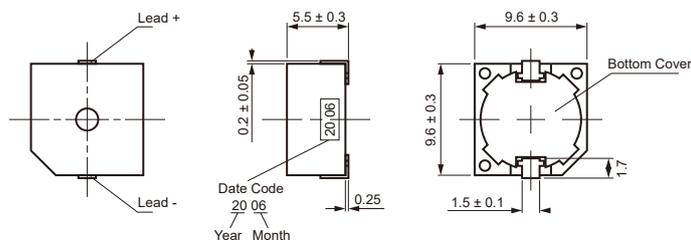
SMB9650TA-27S5 | SMB9650TA-27S12

Operating Voltage	[Vdc]	4 ~ 7	8 ~ 15
Rated Voltage	[Vdc]	5	12
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 89 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.5	1.5

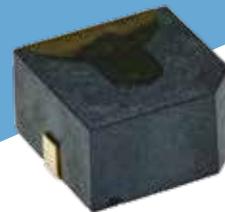
※ value applying rated voltage

Dimensions [size : 9.6 X 9.6 X 5.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Buzzer

SMB9655 Series

Housing

PPS

Color

Black

Terminal

SMT

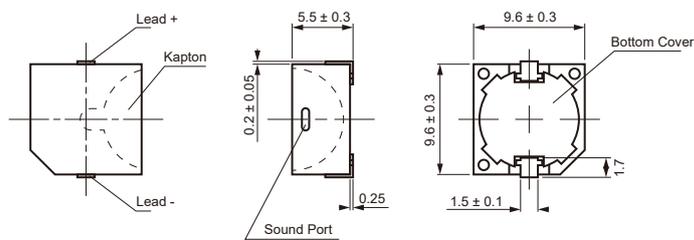
SMB9655-27S3 | SMB9655-27S5

Operating Voltage	[Vdc]	2 ~ 5	4 ~ 7
Rated Voltage	[Vdc]	3	5
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	2700	2700
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.5	1.5

※ value applying rated voltage

Dimensions [size : 9.6 X 9.6 X 5.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Buzzer

SMB1365T Series

Housing

PPS

Color

Grey

Terminal

SMT

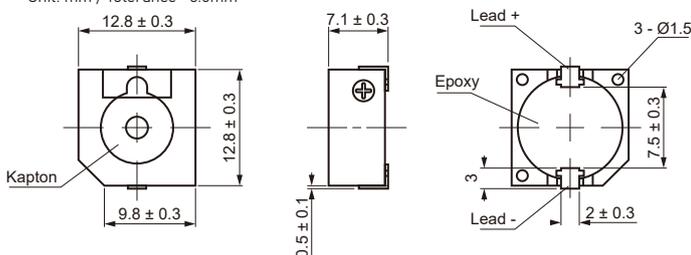
SMB1365T-24S3 | SMB1365T-24S12

Operating Voltage	[Vdc]	2 ~ 5	8 ~ 15
Rated Voltage	[Vdc]	3	12
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 83 / 10cm	Min. 88 / 10cm
※ Resonant Frequency	[Hz]	2400	2400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	2	2

※ value applying rated voltage

Dimensions [size : 12.8 X 12.8 X 7.1 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Buzzer

SMB1310T Series

Housing

PPS

Color

Grey

Terminal

SMT

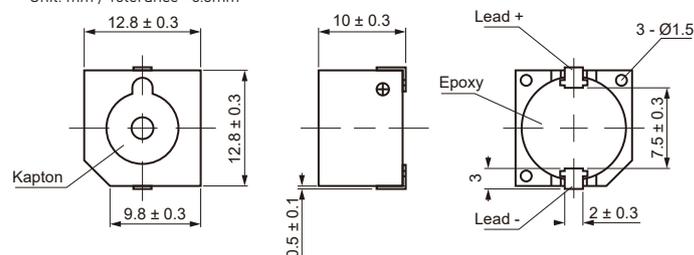
SMB1310T-23S5 | SMB1310T-24S12

Operating Voltage	[Vdc]	3 ~ 7	9 ~ 15
Rated Voltage	[Vdc]	5	12
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 90 / 10cm
※ Resonant Frequency	[Hz]	2300	2400
Tone Nature		Single	Single
Operating Temperature	[°C]	-30 ~ +85	-30 ~ +85
Weight	[g]	2	2

※ value applying rated voltage

Dimensions [size : 12.8 X 12.8 X 10 mm]

Unit: mm / Tolerance ±0.3mm



02 Piezo Buzzer

	Size (mm)	Height (mm)	Rated Voltage (Vdc)	Min. Sound Pressure Level (dBA)	Frequency (Hz)	Tone Nature	Page No.
PB1475-40S9P	Ø13.8	7.5	9	80 / 10cm	4000	Single	08
PB1475-40S12P	Ø13.8	7.5	12	85 / 10cm	4000	Single	08
PB2316-28S12P	Ø23.5	16	12	90 / 10cm	2800	Single	08
PB2316-33S12P	Ø23.5	16	12	90 / 10cm	3300	Single	08
PB2319-33S12P	Ø23	19	12	88 / 30cm	3300	Single	08
PB2319-33S24P	Ø23	19	24	95 / 30cm	3300	Single	08
PB3020-35S12P	Ø30	20	12	90 / 30cm	3500	Single	08
PB4020-28S12P	Ø40	20	12	90 / 100cm	2800	Single	09
PB4314-28S12P	Ø43	14	12	100 / 30cm	2800	Single	09
PB2211EA-45S12W	Ø22	10.8	12	90 / 10cm	4500	Single	09
PB2312E-33S12W	Ø22.7	12.2	12	85 / 30cm	3300	Single	09
PB3010E-35S12W	Ø29.8	10	12	85 / 30cm	3500	Single	10
PB3214E-35S12W	Ø32	13.5	12	90 / 30cm	3500	Single	10
PB4216E-28S12W	Ø42	16	12	90 / 30cm	2800	Single	10
PB4216E-28SP24W	Ø42	16	24	95 / 30cm	2800	Slow Pulse	10
SPB1470-40S5	14x14	7	5	85 / 10cm	4000	Single	10
SPB1470-40S12	14x14	7	12	90 / 10cm	4000	Single	10
SPB1775-40S12	17x17	7.5	12	93 / 10cm	4000	Single	11
XPB2825-35S24W	Ø28	25	24	82 / 30cm	3500	Single	11
XPB2825-35SP12W	Ø28	25	12	82 / 30cm	3500	Slow Pulse	11
XPB2925-37S12W	Ø29.5	25	12	90 / 30cm	3700	Single	11
XPB2925-37SP12W	Ø29.5	25	12	90 / 30cm	3700	Slow Pulse	11
XPB4310-29SSP12E	Ø43	33	12	90 / 30cm	2900	Single + Slow Pulse	11
XPB4310-29SSP24E	Ø43	33	24	95 / 30cm	2900	Single + Slow Pulse	11
XPB4310-29SSP12TH	Ø43	33	12	90 / 30cm	2900	Single + Slow Pulse	12
XPB4310-29SSP24TH	Ø43	33	24	95 / 30cm	2900	Single + Slow Pulse	12
XPB4310A-29SFP12E	Ø43	33.5	12	90 / 30cm	2900	Single + Fast Pulse	12
XPB4310A-29SFP24E	Ø43	33.5	24	95 / 30cm	2900	Single + Fast Pulse	12
XPB4526-29S12W	Ø45	26	12	105 / 30cm	2900	Single	12
XPB5029-25S12T	Ø50	29	12	105 / 30cm	2500	Single	12
XPB5331-28S6W	Ø53	31	6	93 / 30cm	2800	Single	13
XPB3630-28S9T	36x45.3	30.5	9	75 / 60cm	2800	Single	13
XPB4739A-10.30R12W	47x39	23	12	105 / 100cm	1000 ~ 3000	Siren	13
XPB4739A-10.30R24W	47x39	23	24	110 / 100cm	1000 ~ 3000	Siren	13
XPB3631-29S12T	Ø36.3	31.5	12	85 / 30cm	2900	Single	13
XPB3631-29SP24T	Ø36.3	31.5	24	90 / 30cm	2900	Slow Pulse	13
XPB2616A-30S12W	Ø26	16	12	80 / 30cm	3000	Single	14
XPB2616-28S12W	Ø25.6	16	12	85 / 30cm	2800	Single	14

Piezo Buzzer 02

	Size (mm)	Height (mm)	Rated Voltage (Vdc)	Min. Sound Pressure Level (dBA)	Frequency (Hz)	Tone Nature	Page No.
XPB3826-30SFP12T	Ø41.4	26	12	90 / 30cm	3000	Single + Fast Pulse	14
XPB3826-35SFP24T	Ø41.4	26	24	105 / 100cm	3500	Single + Fast Pulse	14
XPB4540-15.35R12W	45x40	59	12	95 / 100cm	1500 ~ 3500	Siren	14
XPB4540-18.35R24W	45x40	59	24	100 / 100cm	1800 ~ 3500	Siren	14
XPB6257-08.20R12W	61.8x56.5	84.5	12	110 / 100cm	800 ~ 2000	Siren	15
XPB5459-26SP12W	Ø54	59	12	105 / 100cm	2600	Slow Pulse	15
XPB8555-26.28T12W	83.5x53.5	32	12	92 / 100cm	2600 ~ 2800	Two Tone	15
XPB8555-26.28T24W	83.5x53.5	32	24	92 / 100cm	2600 ~ 2800	Two Tone	15
XPB106-24.26T12W	105.5*105.5	32	12	112 / 100cm	2400 ~ 2600	Two Tone	15
XPB8542-24S24W	Ø85	41.5	24	105 / 100cm	2400	Single	16
XPB8542-08.20R12W	Ø85	41.5	12	105 / 100cm	800 ~ 2000	Siren	16
XPB6036-30S12W	Ø59	38	12	97 / 100cm	3000	Single	16
XPB6036-30SP24W	Ø59	38	24	97 / 100cm	3000	Slow Pulse	16
XPB5534-30SP24W	Ø55.3	34.8	24	97 / 100cm	3000	Slow Pulse	16
XPB5534-30S12W	Ø55.3	34.8	12	87 / 100cm	3000	Single	16
XPB5038-12.30R12W	Ø50	38	12	105 / 100cm	1200 ~ 3000	Siren	16
XPB4221-29S24T	Ø42	20.5	24	85 / 25cm	2900	Single	17
XPB3333-15.35R12P	Ø33	33	12	105 / 100cm	1500 ~ 3500	Siren	17
XPB2522-28S12P	Ø26.3	22.3	12	100 / 10cm	2800	Single	17
XPB4318-29SFPSP12W	Ø43	18	12	100 / 30cm	2900	Single + Fast Pulse + Slow Pulse	17

Piezo Buzzer

PB1475 Series

Housing

PPO

Color

Black

Terminal

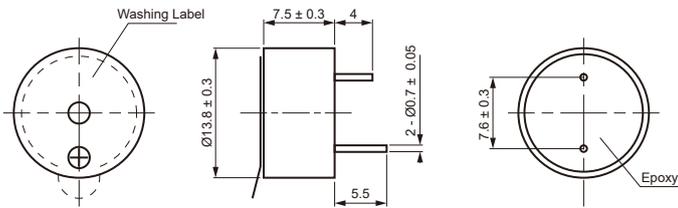
Pin

		PB1475-40S9P	PB1475-40S12P
Operating Voltage	[Vdc]	3 ~ 15	3 ~ 15
Rated Voltage	[Vdc]	9	12
※ Rated Current	[mA]	Max. 10	Max. 10
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
※ Resonant Frequency	[Hz]	4000	4000
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +85
Weight	[g]	1	1

※ value applying rated voltage

Dimensions [size : Ø13.8 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

PB2316 Series

Housing

PPO

Color

Black

Terminal

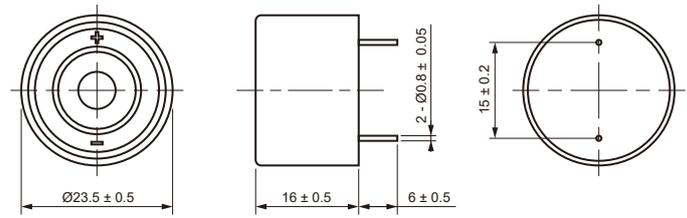
Pin

		PB2316-28S12P	PB2316-33S12P
Operating Voltage	[Vdc]	3 ~ 20	3 ~ 20
Rated Voltage	[Vdc]	12	12
※ Rated Current	[mA]	Max. 12	Max. 10
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm	Min. 90 / 10cm
※ Resonant Frequency	[Hz]	2800	3300
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	4.5	4.5

※ value applying rated voltage

Dimensions [size : Ø23.5 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

PB2319 Series

Housing

PPO

Color

Black

Terminal

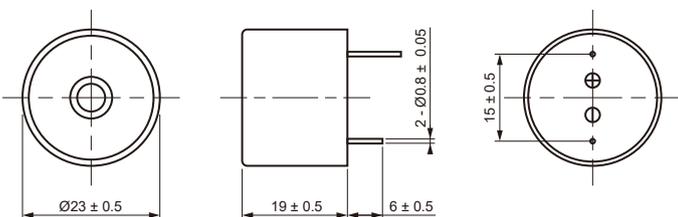
Pin

		PB2319-33S12P	PB2319-33S24P
Operating Voltage	[Vdc]	8 ~ 15	12 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 15	Max. 20
※ Sound Pressure Level	[dBA]	Min. 88 / 30cm	Min. 95 / 30cm
※ Resonant Frequency	[Hz]	3300	3300
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	6.5	6.5

※ value applying rated voltage

Dimensions [size : Ø23 X 19 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

PB3020 Series

Housing

PPO

Color

Black

Terminal

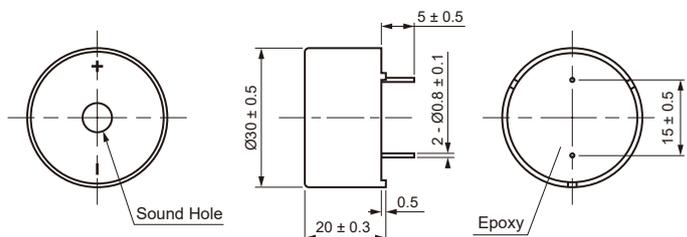
Pin

		PB3020-35S12P
Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 10
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm
※ Resonant Frequency	[Hz]	3500
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	8

※ value applying rated voltage

Dimensions [size : Ø30 X 20 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
PB4020 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

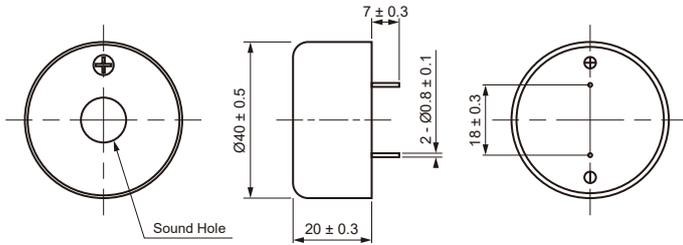
PB4020-28S12P

Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 60
※ Sound Pressure Level	[dBA]	Min. 90 / 100cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	14

※ value applying rated voltage

Dimensions [size : Ø40 X 20 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
PB4314 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

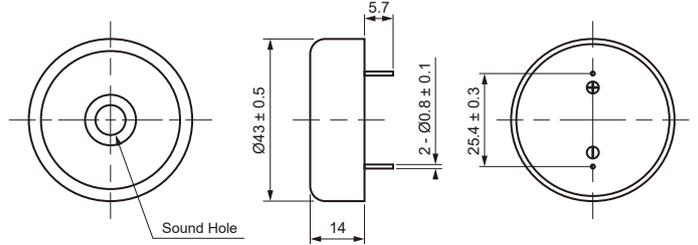
PB4314-28S12P

Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 12
※ Sound Pressure Level	[dBA]	Min. 100 / 30cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	12

※ value applying rated voltage

Dimensions [size : Ø43 X 14 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
PB2211EA Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

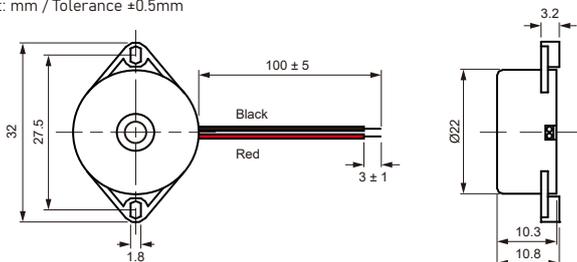
PB2211EA-45S12W

Operating Voltage	[Vdc]	3 ~ 28
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 5
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
※ Resonant Frequency	[Hz]	4500
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4

※ value applying rated voltage

Dimensions [size : Ø22 X 10.8 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
PB2312E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

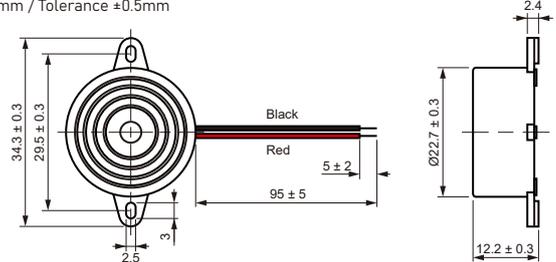
PB2312E-33S12W

Operating Voltage	[Vdc]	8 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 15
※ Sound Pressure Level	[dBA]	Min. 85 / 30cm
※ Resonant Frequency	[Hz]	3300
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	3

※ value applying rated voltage

Dimensions [size : Ø22.7 X 12.2 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer PB3010E Series



Housing
ABS
Color
Black
Terminal
Wire

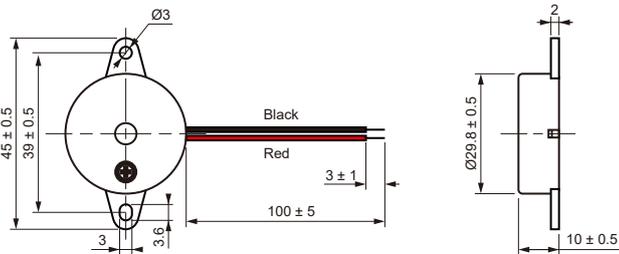
PB3010E-35S12W

Operating Voltage	[Vdc]	3 ~ 28
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 15
※ Sound Pressure Level	[dBA]	Min. 85 / 30cm
※ Resonant Frequency	[Hz]	3500
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	8

※ value applying rated voltage

Dimensions [size : Ø29.8 X 10 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer PB3214E Series



Housing
ABS
Color
Black
Terminal
Wire

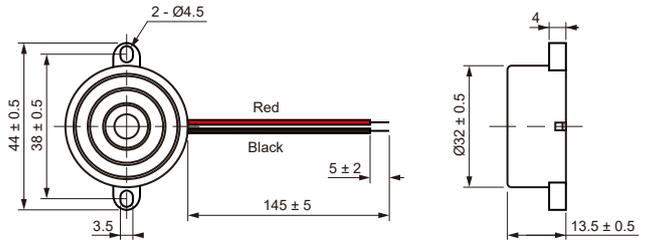
PB3214E-35S12W

Operating Voltage	[Vdc]	3 ~ 28
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 10
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm
※ Resonant Frequency	[Hz]	3500
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	8

※ value applying rated voltage

Dimensions [size : Ø32 X 13.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer PB4216E Series



Housing
ABS
Color
Black
Terminal
Wire

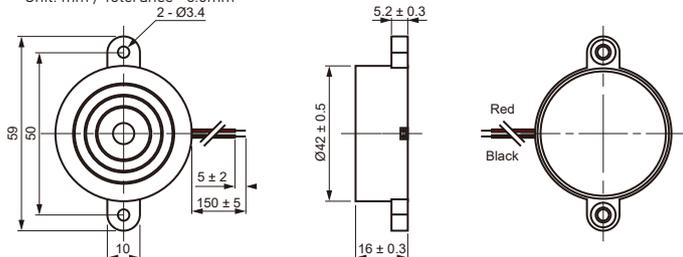
PB4216E-28S12W PB4216E-28SP24W

Operating Voltage	[Vdc]	3 ~ 28	3 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 15	Max. 15
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 95 / 30cm
※ Resonant Frequency	[Hz]	2800	2800
Tone Nature		Single	Slow Pulse
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	15	15

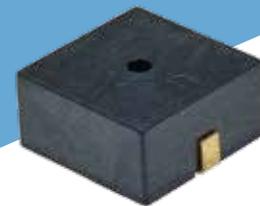
※ value applying rated voltage

Dimensions [size : Ø42 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer SPB1470



Housing
LCP
Color
Black
Terminal
SMT

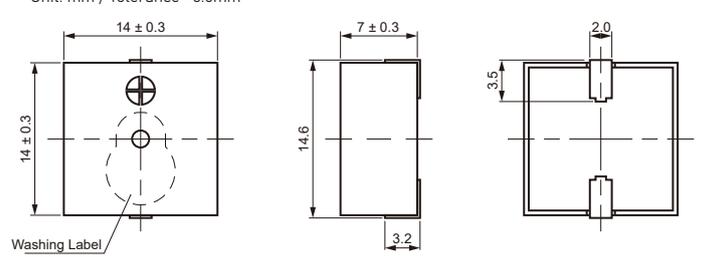
SPB1470-40S5 SPB1470-40S12

Operating Voltage	[Vdc]	4 ~ 16	4 ~ 16
Rated Voltage	[Vdc]	5	12
※ Rated Current	[mA]	Max. 8	Max. 10
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 90 / 10cm
※ Resonant Frequency	[Hz]	4000	4000
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.3	1.3

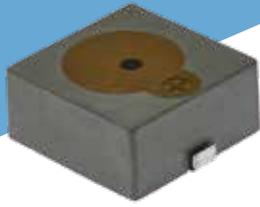
※ value applying rated voltage

Dimensions [size : 14 X 14 X 7 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
SPB1775 Series



- Housing**
PPS
- Color**
Grey
- Terminal**
SMT

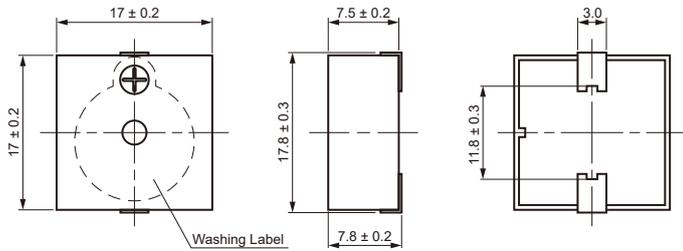
SPB1775-40S12

Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 8
※ Sound Pressure Level	[dBA]	Min. 93 / 10cm
※ Resonant Frequency	[Hz]	4000
Tone Nature		Single
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	2.6

※ value applying rated voltage

Dimensions [size : 17 X 17 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB2825 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

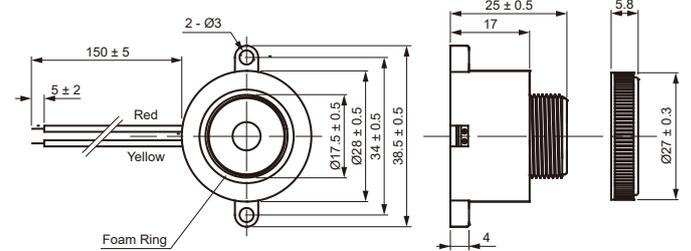
XPB2825-35S24W | **XPB2825-35SP12W**

Operating Voltage	[Vdc]	12 ~ 30	3 ~ 24
Rated Voltage	[Vdc]	24	12
※ Rated Current	[mA]	Max. 15	Max. 15
※ Sound Pressure Level	[dBA]	Min. 82 / 30cm	Min. 82 / 30cm
※ Resonant Frequency	[Hz]	3500	3500
Tone Nature		Single	Slow Pulse
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	8	8

※ value applying rated voltage

Dimensions [size : Ø28 X 25 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB2925 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

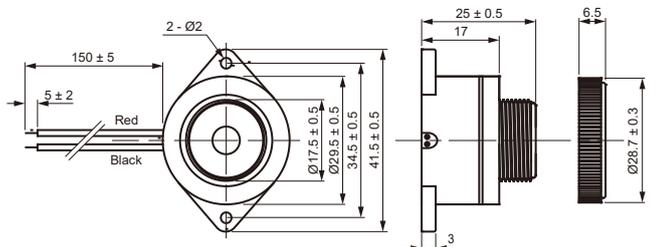
XPB2925-37S12W | **XPB2925-37SP12W**

Operating Voltage	[Vdc]	3 ~ 24	3 ~ 24
Rated Voltage	[Vdc]	12	12
※ Rated Current	[mA]	Max. 15	Max. 15
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 90 / 30cm
※ Resonant Frequency	[Hz]	3700	3700
Tone Nature		Single	Slow Pulse
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	15	15

※ value applying rated voltage

Dimensions [size : Ø29.5 X 25 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB4310 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Screw

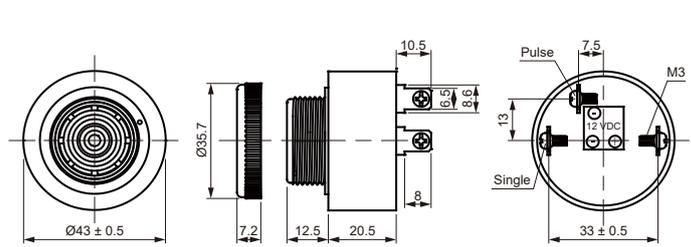
XPB4310-29SSP12E | **XPB4310-29SSP24E**

Operating Voltage	[Vdc]	6 ~ 28	12 ~ 36
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 25	Max. 30
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 95 / 30cm
※ Resonant Frequency	[Hz]	2900	2900
Tone Nature		Single + Slow Pulse	Single + Slow Pulse
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	39	39

※ value applying rated voltage

Dimensions [size : Ø43 X 33 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB4310 Series

Housing

ABS

Color

Black

Terminal

Plate

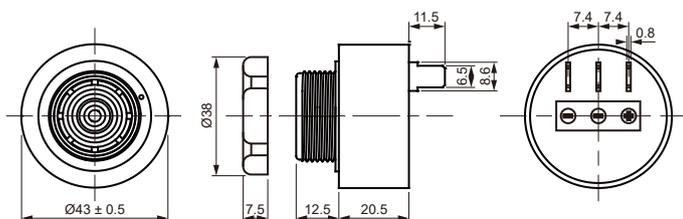
XPB4310-29SSP12TH | XPB4310-29SSP24TH

Operating Voltage	[Vdc]	6 ~ 28	12 ~ 36
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 25	Max. 30
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 95 / 30cm
※ Resonant Frequency	[Hz]	2900	2900
Tone Nature		Single + Slow Pulse	Single + Slow Pulse
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	39	39

※ value applying rated voltage

Dimensions [size : Ø43 X 33 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB4310A Series

Housing

ABS

Color

Black

Terminal

Screw

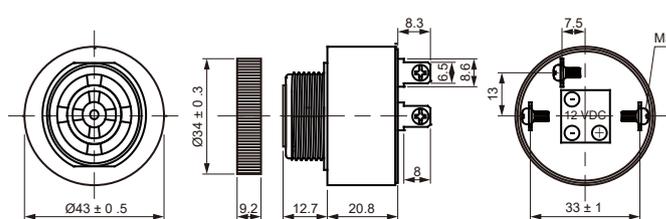
XPB4310A-29SFP12E | XPB4310A-29SFP24E

Operating Voltage	[Vdc]	4 ~ 16	6 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 30	Max. 30
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 95 / 30cm
※ Resonant Frequency	[Hz]	2900	2900
Tone Nature		Single + Fast Pulse	Single + Fast Pulse
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	39	39

※ value applying rated voltage

Dimensions [size : Ø43 X 33.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB4526 Series

Housing

ABS (Fire Resistance)

Color

White

Terminal

Wire

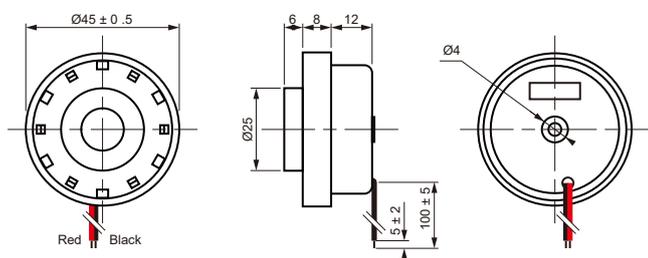
XPB4526-29S12W

Operating Voltage	[Vdc]	3 ~ 16
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 35
※ Sound Pressure Level	[dBA]	Min. 105 / 30cm
※ Resonant Frequency	[Hz]	2900
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	22

※ value applying rated voltage

Dimensions [size : Ø45 X 26 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB5029 Series

Housing

ABS

Color

Black

Terminal

Plate

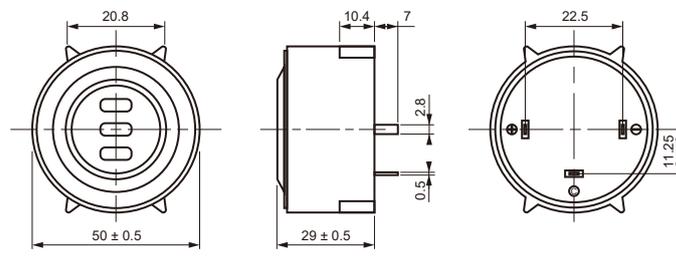
XPB5029-25S12T

Operating Voltage	[Vdc]	5 ~ 13
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 75
※ Sound Pressure Level	[dBA]	Min. 105 / 30cm
※ Resonant Frequency	[Hz]	2500
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	28

※ value applying rated voltage

Dimensions [size : Ø50 X 29 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB5331 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

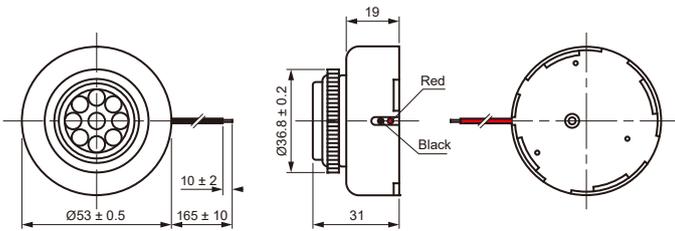
XPB5331-28S6W

Operating Voltage	[Vdc]	3 ~ 12
Rated Voltage	[Vdc]	6
※ Rated Current	[mA]	Max. 20
※ Sound Pressure Level	[dBA]	Min. 93 / 30cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	35

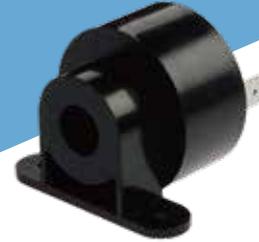
※ value applying rated voltage

Dimensions [size : Ø53 X 31 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB3630 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Plate

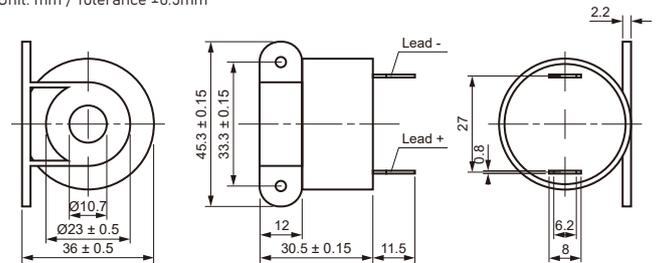
XPB3630-28S9T

Operating Voltage	[Vdc]	9 ~ 48
Rated Voltage	[Vdc]	9
※ Rated Current	[mA]	Max. 3
※ Sound Pressure Level	[dBA]	Min. 75 / 60cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	26

※ value applying rated voltage

Dimensions [size : 36 X 45.3 X 30.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB4739A Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

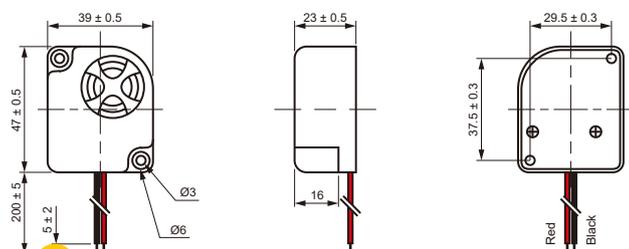
XPB4739A-10.30R12W | **XPB4739A-10.30R24W**

Operating Voltage	[Vdc]	6 ~ 15	6 ~ 30
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 150	Max. 180
※ Sound Pressure Level	[dBA]	Min. 105 / 100cm	Min. 110 / 100cm
※ Resonant Frequency	[Hz]	1000 ~ 3000	1000 ~ 3000
Tone Nature		Siren	Siren
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	25	25

※ value applying rated voltage

Dimensions [size : 47 X 39 X 23 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB3631 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Plate

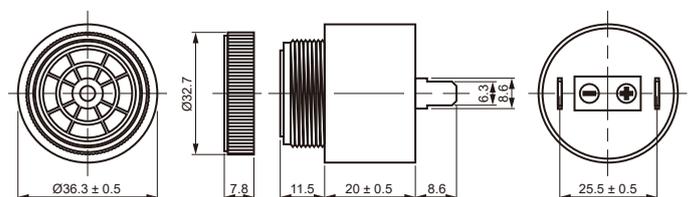
XPB3631-29S12T | **XPB3631-29SP24T**

Operating Voltage	[Vdc]	6 ~ 28	6 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 20	Max. 20
※ Sound Pressure Level	[dBA]	Min. 85 / 30cm	Min. 90 / 30cm
※ Resonant Frequency	[Hz]	2900	2900
Tone Nature		Single	Slow Pulse
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	28	28

※ value applying rated voltage

Dimensions [size : Ø36.3 X 31.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB2616A Series

IP67



Housing

ABS

Color

Black

Terminal

Wire

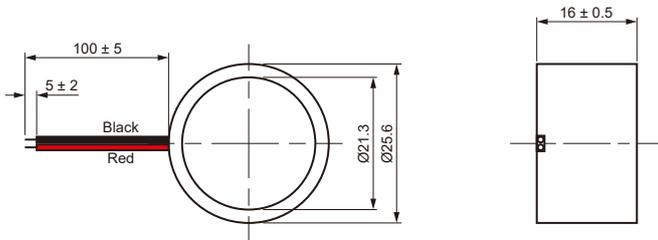
XPB2616A-30S12W

Operating Voltage	[Vdc]	5 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 35
※ Sound Pressure Level	[dBA]	Min. 80 / 30cm
※ Resonant Frequency	[Hz]	3000
Tone Nature		Single
Operating Temperature	[°C]	-30 ~ +85
Weight	[g]	40

※ value applying rated voltage

Dimensions [size : Ø26 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB2616 Series

IP67



Housing

ABS

Color

Black

Terminal

Wire

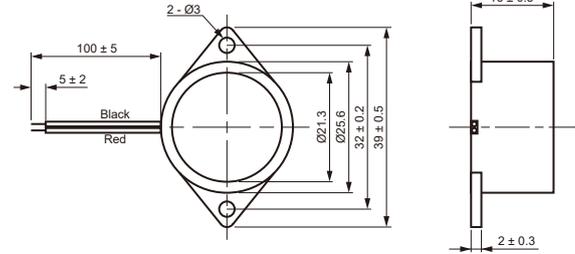
XPB2616-28S12W

Operating Voltage	[Vdc]	6 ~ 16
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 35
※ Sound Pressure Level	[dBA]	Min. 85 / 30cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-30 ~ +85
Weight	[g]	41

※ value applying rated voltage

Dimensions [size : Ø25.6 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB3826 Series

Housing

ABS

Color

Black

Terminal

Plate

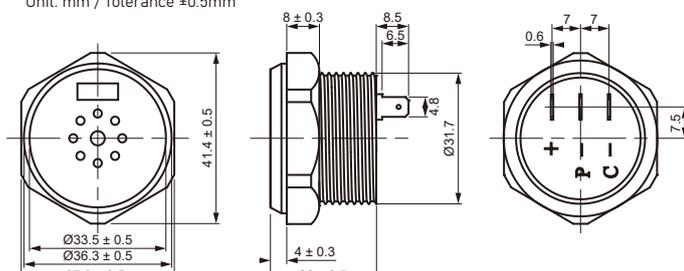
XPB3826-30SFP12T**XPB3826-35SFP24T**

Operating Voltage	[Vdc]	5 ~ 28	5 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 18	Max. 35
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm	Min. 105 / 100cm
※ Resonant Frequency	[Hz]	3000	3500
Tone Nature		Single + Fast Pulse	Single + Fast Pulse
Operating Temperature	[°C]	-30 ~ +85	-30 ~ +85
Weight	[g]	25	25

※ value applying rated voltage

Dimensions [size : Ø41.4 X 26 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB4540 Series

Housing

ABS

Color

Black

Terminal

Wire

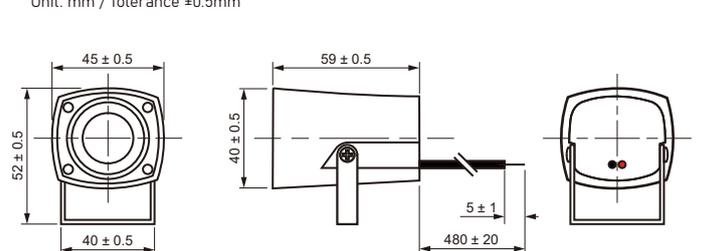
XPB4540-15.35R12W**XPB4540-18.35R24W**

Operating Voltage	[Vdc]	9 ~ 15	12 ~ 25
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 130	Max. 100
※ Sound Pressure Level	[dBA]	Min. 95 / 100cm	Min. 100 / 100cm
※ Resonant Frequency	[Hz]	1500 ~ 3500	1800 ~ 3500
Tone Nature		Siren	Siren
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	54	54

※ value applying rated voltage

Dimensions [size : 45 X 40 X 59 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB6257 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

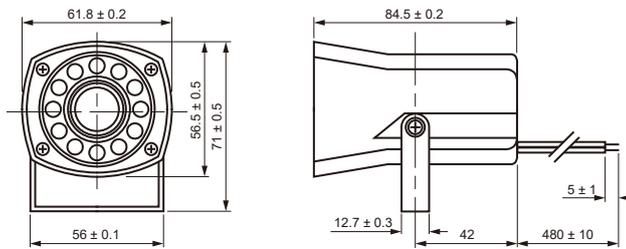
XPB6257-08.20R12W

Operating Voltage	[Vdc]	6 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 200
※ Sound Pressure Level	[dBA]	Min. 110 / 100cm
※ Resonant Frequency	[Hz]	800 ~ 2000
Tone Nature		Siren
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	101

※ value applying rated voltage

Dimensions [size : 61.8 X 56.5 X 84.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB5459 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

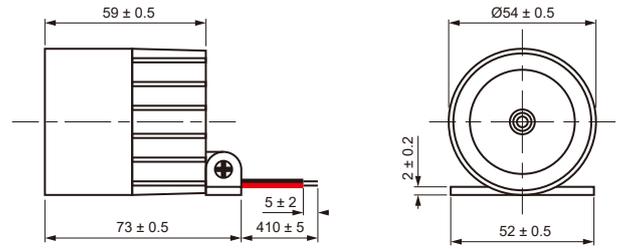
XPB5459-26SP12W

Operating Voltage	[Vdc]	6 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 160
※ Sound Pressure Level	[dBA]	Min. 105 / 100cm
※ Resonant Frequency	[Hz]	2600
Tone Nature		Slow Pulse
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	65

※ value applying rated voltage

Dimensions [size : Ø54 X 59 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB8555 Series



- Housing**
ABS
- Color**
White
- Terminal**
Wire

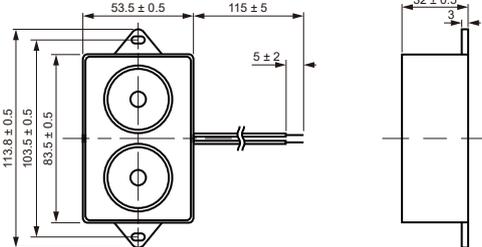
XPB8555-26.28T12W **XPB8555-26.28T24W**

Operating Voltage	[Vdc]	9 ~ 15	16 ~ 28
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 120	Max. 120
※ Sound Pressure Level	[dBA]	Min. 92 / 100cm	Min. 92 / 100cm
※ Resonant Frequency	[Hz]	2600 ~ 2800	2600 ~ 2800
Tone Nature		Two Tone	Two Tone
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	65	65

※ value applying rated voltage

Dimensions [size : 83.5 X 53.5 X 32 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB106 Series



- Housing**
ABS
- Color**
White
- Terminal**
Wire

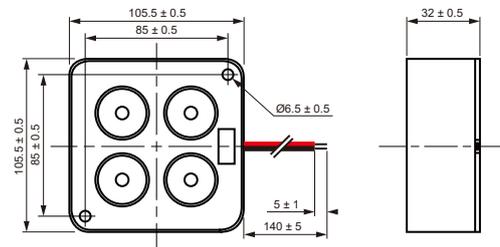
XPB106-24.26T12W

Operating Voltage	[Vdc]	8 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 150
※ Sound Pressure Level	[dBA]	Min. 112 / 100cm
※ Resonant Frequency	[Hz]	2400 ~ 2600
Tone Nature		Two Tone
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	130

※ value applying rated voltage

Dimensions [size : 105.5 X 105.5 X 32 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB8542 Series

Housing

ABS

Color

White

Terminal

Wire

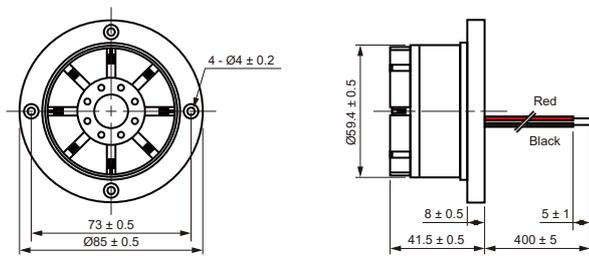
	XPB8542-24S24W	XPB8542-08.20R12W
Operating Voltage [Vdc]	16 ~ 28	6 ~ 15
Rated Voltage [Vdc]	24	12
※ Rated Current [mA]	Max. 80	Max. 200
※ Sound Pressure Level [dBA]	Min. 105 / 100cm	Min. 105 / 100cm
※ Resonant Frequency [Hz]	2400	800 ~ 2000
Tone Nature	Single	Siren
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	60	60

	XPB8542-24S24W	XPB8542-08.20R12W
Operating Voltage [Vdc]	16 ~ 28	6 ~ 15
Rated Voltage [Vdc]	24	12
※ Rated Current [mA]	Max. 80	Max. 200
※ Sound Pressure Level [dBA]	Min. 105 / 100cm	Min. 105 / 100cm
※ Resonant Frequency [Hz]	2400	800 ~ 2000
Tone Nature	Single	Siren
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	60	60

※ value applying rated voltage

Dimensions [size : Ø85 X 41.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB6036 Series

Housing

ABS

Color

Black

Terminal

Wire

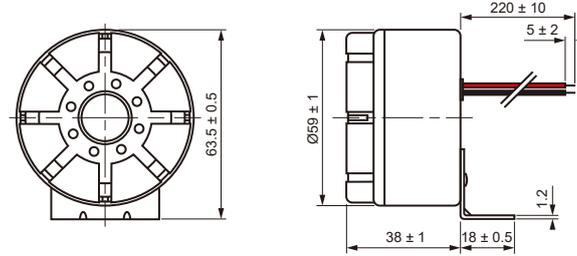
	XPB6036-30S12W	XPB6036-30SP24W
Operating Voltage [Vdc]	8 ~ 15	15 ~ 30
Rated Voltage [Vdc]	12	24
※ Rated Current [mA]	Max. 100	Max. 100
※ Sound Pressure Level [dBA]	Min. 97 / 100cm	Min. 97 / 100cm
※ Resonant Frequency [Hz]	3000	3000
Tone Nature	Single	Slow Pulse
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	135	135

	XPB6036-30S12W	XPB6036-30SP24W
Operating Voltage [Vdc]	8 ~ 15	15 ~ 30
Rated Voltage [Vdc]	12	24
※ Rated Current [mA]	Max. 100	Max. 100
※ Sound Pressure Level [dBA]	Min. 97 / 100cm	Min. 97 / 100cm
※ Resonant Frequency [Hz]	3000	3000
Tone Nature	Single	Slow Pulse
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	135	135

※ value applying rated voltage

Dimensions [size : Ø59 X 38 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB5534 Series

Housing

ABS

Color

White

Terminal

Wire

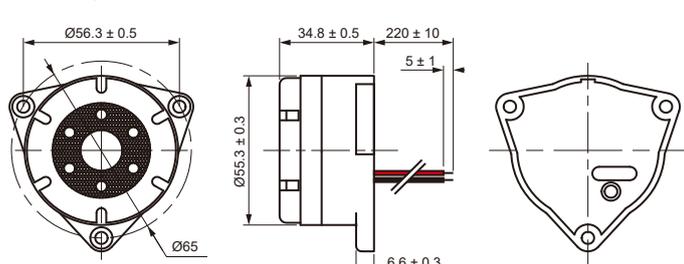
	XPB5534-30SP24W	XPB5534-30S12W
Operating Voltage [Vdc]	6 ~ 30	6 ~ 30
Rated Voltage [Vdc]	24	12
※ Rated Current [mA]	Max. 35	Max. 25
※ Sound Pressure Level [dBA]	Min. 97 / 100cm	Min. 87 / 100cm
※ Resonant Frequency [Hz]	3000	3000
Tone Nature	Slow Pulse	Single
Operating Temperature [°C]	-20 ~ +80	-20 ~ +80
Weight [g]	93	93

	XPB5534-30SP24W	XPB5534-30S12W
Operating Voltage [Vdc]	6 ~ 30	6 ~ 30
Rated Voltage [Vdc]	24	12
※ Rated Current [mA]	Max. 35	Max. 25
※ Sound Pressure Level [dBA]	Min. 97 / 100cm	Min. 87 / 100cm
※ Resonant Frequency [Hz]	3000	3000
Tone Nature	Slow Pulse	Single
Operating Temperature [°C]	-20 ~ +80	-20 ~ +80
Weight [g]	93	93

※ value applying rated voltage

Dimensions [size : Ø55.3 X 34.8 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer

XPB5038 Series

Housing

ABS

Color

Black

Terminal

Wire

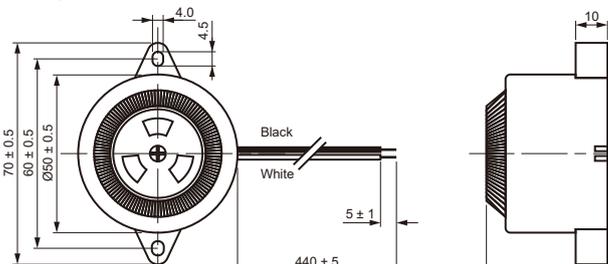
	XPB5038-12.30R12W
Operating Voltage [Vdc]	6 ~ 15
Rated Voltage [Vdc]	12
※ Rated Current [mA]	Max. 180
※ Sound Pressure Level [dBA]	Min. 105 / 100cm
※ Resonant Frequency [Hz]	1200 ~ 3000
Tone Nature	Siren
Operating Temperature [°C]	-20 ~ +60
Weight [g]	40

	XPB5038-12.30R12W
Operating Voltage [Vdc]	6 ~ 15
Rated Voltage [Vdc]	12
※ Rated Current [mA]	Max. 180
※ Sound Pressure Level [dBA]	Min. 105 / 100cm
※ Resonant Frequency [Hz]	1200 ~ 3000
Tone Nature	Siren
Operating Temperature [°C]	-20 ~ +60
Weight [g]	40

※ value applying rated voltage

Dimensions [size : Ø50 X 38 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB4221 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Plate

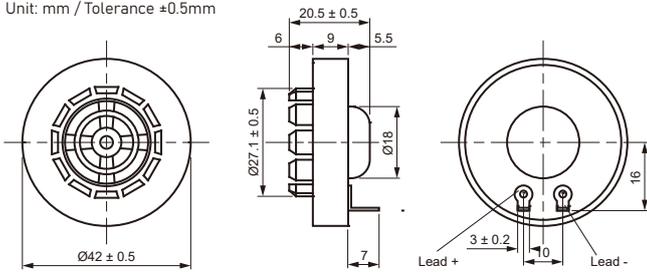
XPB4221-29S24T

Operating Voltage	[Vdc]	1 ~ 28
Rated Voltage	[Vdc]	24
※ Rated Current	[mA]	Max. 15
※ Sound Pressure Level	[dBA]	Min. 85 / 25cm
※ Resonant Frequency	[Hz]	2900
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	13

※ value applying rated voltage

Dimensions [size : Ø42 X 20.5 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB2522 Series



- Housing**
Noryl
- Color**
Black
- Terminal**
Pin

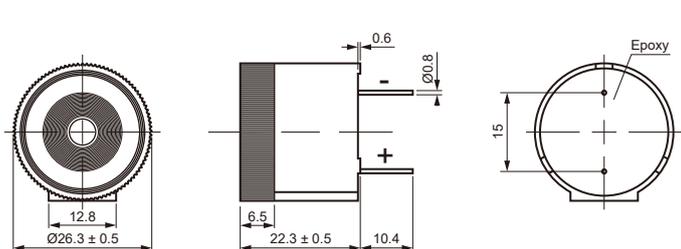
XPB2522-28S12P

Operating Voltage	[Vdc]	5 ~ 18
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 50
※ Sound Pressure Level	[dBA]	Min. 100 / 10cm
※ Resonant Frequency	[Hz]	2800
Tone Nature		Single
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	12

※ value applying rated voltage

Dimensions [size : Ø26.3 X 22.3 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB3333 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

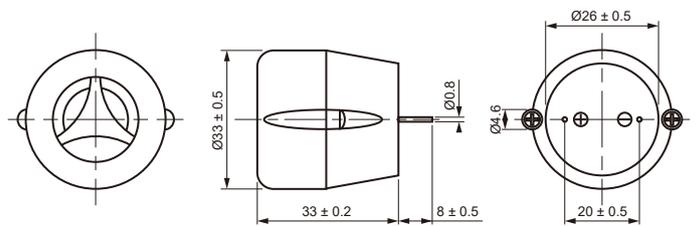
XPB3333-15.35R12P

Operating Voltage	[Vdc]	5 ~ 15
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 150
※ Sound Pressure Level	[dBA]	Min. 105 / 100cm
※ Resonant Frequency	[Hz]	1500 ~ 3500
Tone Nature		Siren
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	20

※ value applying rated voltage

Dimensions [size : Ø33 X 33 mm]

Unit: mm / Tolerance ±0.5mm



Piezo Buzzer
XPB4318 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Wire

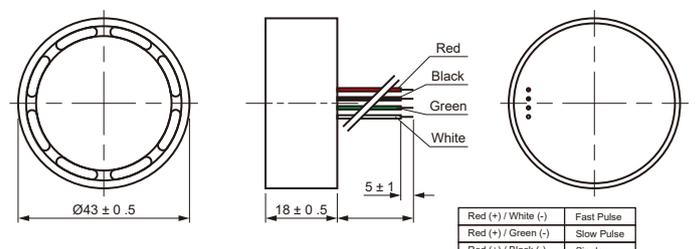
XPB4318-29SFPSP12W

Operating Voltage	[Vdc]	6 ~ 28
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 25
※ Sound Pressure Level	[dBA]	Min. 100 / 30cm
※ Resonant Frequency	[Hz]	2900
Tone Nature		Single + Fast Pulse + Slow Pulse
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	21

※ value applying rated voltage

Dimensions [size : Ø43 X 18 mm]

Unit: mm / Tolerance ±0.5mm



Red (+) / White (-)	Fast Pulse
Red (+) / Green (-)	Slow Pulse
Red (+) / Black (-)	Single

03 Mechanical Buzzer

	Size (mm)	Height (mm)	Rated Voltage (Vdc)	Min. Sound Pressure Level (dBA)	Frequency (Hz)	Tone Nature	Page No.
MEB2317C-B1P2	23x17	15	1.5	80 / 10cm	400	Single	19
MEB2317E-B6W	23x17.2	15.5	6	75 / 20cm	400	Single	19
MEB2317E-B12W	23x17.2	15.5	12	75 / 20cm	400	Single	19
MEB2317P-B3W	23x17.2	15.5	3	75 / 20cm	400	Single	19
MEB2317P-B9W	23x17.2	15.5	9	75 / 20cm	400	Single	19
MEB2317-B1P4	23x17	15	1.5	75 / 20cm	400	Single	19
MEB2317-B3P4	23x17	15	3	75 / 20cm	400	Single	19
MEB2215E-W3W	22.5x16	14.5	3	75 / 20cm	400	Single	20
MEB2215E-W6W	22.5x16	14.5	6	75 / 20cm	400	Single	20
MEB2618E-B6W	Ø26.4	17.6	6	95 / 10cm	400	Single	20
MEB2618E-B12W	Ø26.4	17.6	12	95 / 10cm	400	Single	20
MEB2617E-W6W	Ø26	17.5	6	75 / 20cm	400	Single	20
MEB2617E-W9W	Ø26	17.5	9	75 / 20cm	400	Single	20
MEB2615E-B3W	Ø26	15	3	75 / 20cm	400	Single	20
MEB2615E-B12W	Ø26	15	12	75 / 20cm	400	Single	20
MEB2316-B12P4	22.5x16	14.5	12	75 / 20cm	400	Single	21
MEB2316-B24P4	22.5x16	14.5	24	75 / 20cm	400	Single	21
MEB2620-G6P4	26x26	19.3	6	95 / 10cm	400	Single	21
MEB2620-G12P4	26x26	19.3	12	95 / 10cm	400	Single	21
MEB2620E-W6T	26x26	19.5	6	95 / 10cm	400	Single	21
MEB2620E-W12T	26x26	19.5	12	95 / 10cm	400	Single	21
MEB2619E-B12W	26x26	19	12	92 / 10cm	400	Single	21

Mechanical Buzzer
MEB2317C Series



- Housing**
ABS
- Color**
Black
- Terminal**
2 Pin

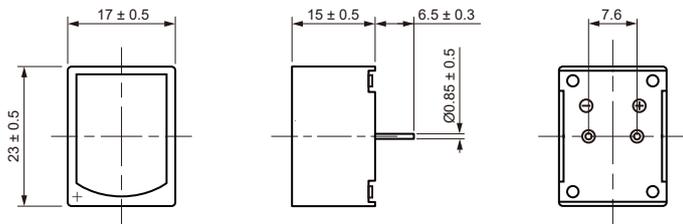
MEB2317C-B1P2

Operating Voltage	[Vdc]	1 ~ 3
Rated Voltage	[Vdc]	1.5
※ Rated Current	[mA]	Max. 20
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
※ Resonant Frequency	[Hz]	400
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	7

※ value applying rated voltage

Dimensions [size : 23 X 17 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2317E Series



- Housing**
ABS
- Color**
Black / White
- Terminal**
Wire

MEB2317E-B6W

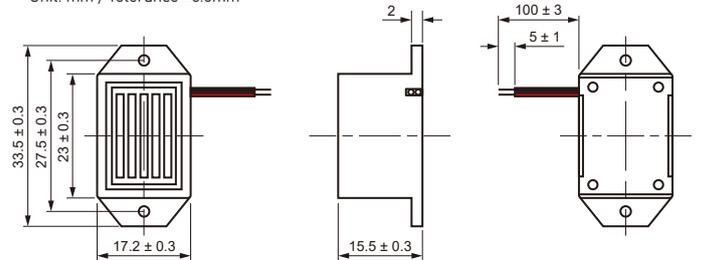
MEB2317E-B12W

Operating Voltage	[Vdc]	4 ~ 8	8 ~ 15
Rated Voltage	[Vdc]	6	12
※ Rated Current	[mA]	Max. 25	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	10	10

※ value applying rated voltage

Dimensions [size : 23 X 17.2 X 15.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2317P Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

MEB2317P-B3W

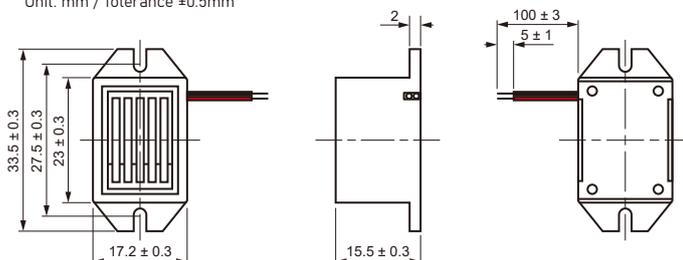
MEB2317P-B9W

Operating Voltage	[Vdc]	2 ~ 4	6 ~ 12
Rated Voltage	[Vdc]	3	9
※ Rated Current	[mA]	Max. 25	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	10	10

※ value applying rated voltage

Dimensions [size : 23 X 17.2 X 15.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2317 Series



- Housing**
ABS
- Color**
Black
- Terminal**
2 Pin / 4 Pin

MEB2317-B1P4

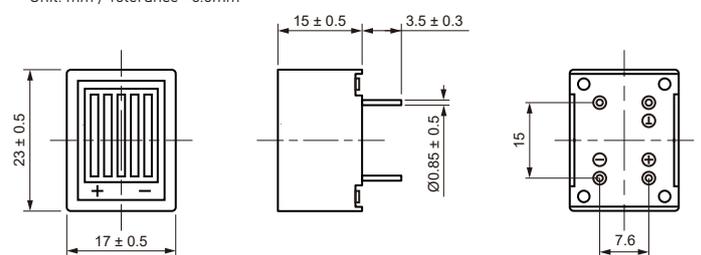
MEB2317-B3P4

Operating Voltage	[Vdc]	1 ~ 3	2 ~ 4
Rated Voltage	[Vdc]	1.5	3
※ Rated Current	[mA]	Max. 20	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	7	7

※ value applying rated voltage

Dimensions [size : 23 X 17 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer

MEB2215E Series

Housing

ABS

Color

White

Terminal

Wire

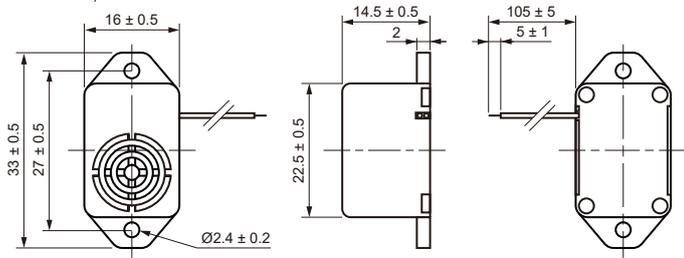
MEB2215E-W3W MEB2215E-W6W

Operating Voltage	[Vdc]	2 ~ 4	4 ~ 8
Rated Voltage	[Vdc]	3	6
※ Rated Current	[mA]	Max. 25	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	8	8

※ value applying rated voltage

Dimensions [size : 22.5 X 16 X 14.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer

MEB2618E Series

Housing

PPO / ABS

Color

Black / White

Terminal

Wire

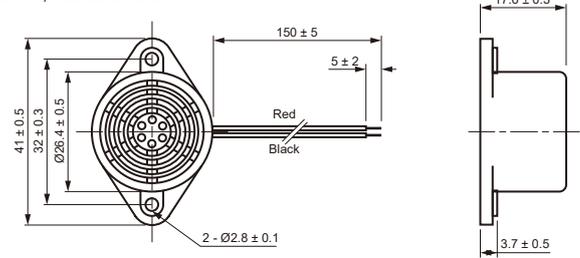
MEB2618E-B6W MEB2618E-B12W

Operating Voltage	[Vdc]	4 ~ 8	7 ~ 16
Rated Voltage	[Vdc]	6	12
※ Rated Current	[mA]	Max. 33	Max. 33
※ Sound Pressure Level	[dBA]	Min. 95 / 10cm	Min. 95 / 10cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	20	20

※ value applying rated voltage

Dimensions [size : Ø26.4 X 17.6 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer

MEB2617E Series

Housing

ABS

Color

Black / White

Terminal

Wire

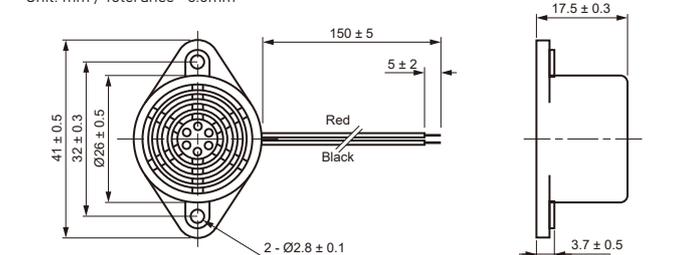
MEB2617E-W6W MEB2617E-W9W

Operating Voltage	[Vdc]	4 ~ 8	6 ~ 12
Rated Voltage	[Vdc]	6	9
※ Rated Current	[mA]	Max. 25	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	15	15

※ value applying rated voltage

Dimensions [size : Ø26 X 17.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer

MEB2615E Series

Housing

ABS

Color

Black / White

Terminal

Wire

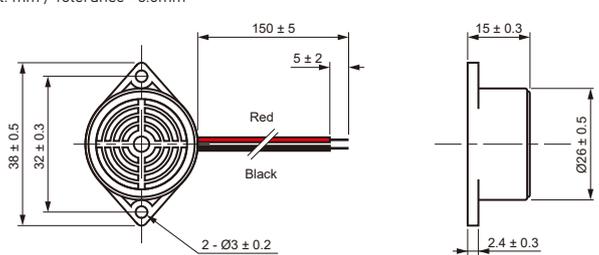
MEB2615E-B3W MEB2615E-B12W

Operating Voltage	[Vdc]	2 ~ 4	9 ~ 15
Rated Voltage	[Vdc]	3	12
※ Rated Current	[mA]	Max. 25	Max. 25
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	12	12

※ value applying rated voltage

Dimensions [size : Ø26 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2316 Series



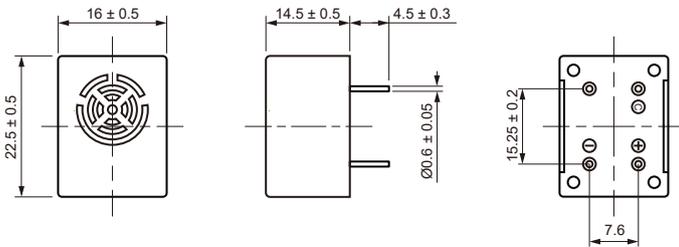
- Housing**
Noryl
- Color**
Black
- Terminal**
4 Pin

		MEB2316-B12P4	MEB2316-B24P4
Operating Voltage	[Vdc]	9 ~ 15	15 ~ 27
Rated Voltage	[Vdc]	12	24
※ Rated Current	[mA]	Max. 25	Max. 30
※ Sound Pressure Level	[dBA]	Min. 75 / 20cm	Min. 75 / 20cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-30 ~ +70	-30 ~ +70
Weight	[g]	10	10

※ value applying rated voltage

Dimensions [size : 22.5 X 16 X 14.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2620 Series



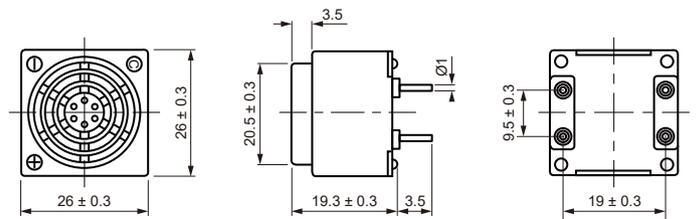
- Housing**
Noryl
- Color**
Black / White / Grey
- Terminal**
4 Pin

		MEB2620-G6P4	MEB2620-G12P4
Operating Voltage	[Vdc]	4 ~ 8	8 ~ 16
Rated Voltage	[Vdc]	6	12
※ Rated Current	[mA]	Max. 35	Max. 55
※ Sound Pressure Level	[dBA]	Min. 95 / 10cm	Min. 95 / 10cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-30 ~ +70	-30 ~ +70
Weight	[g]	17	17

※ value applying rated voltage

Dimensions [size : 26 X 26 X 19.3 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2620E Series



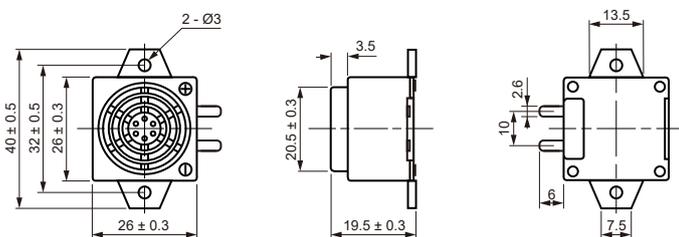
- Housing**
ABS
- Color**
White
- Terminal**
Plate

		MEB2620E-W6T	MEB2620E-W12T
Operating Voltage	[Vdc]	4 ~ 8	9 ~ 15
Rated Voltage	[Vdc]	6	12
※ Rated Current	[mA]	Max. 65	Max. 55
※ Sound Pressure Level	[dBA]	Min. 95 / 10cm	Min. 95 / 10cm
※ Resonant Frequency	[Hz]	400	400
Tone Nature		Single	Single
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	15	15

※ value applying rated voltage

Dimensions [size : 26 X 26 X 19.5 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Buzzer
MEB2619E Series



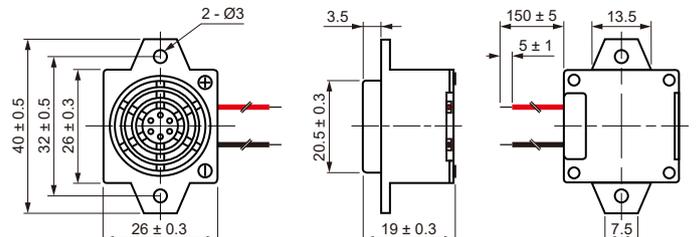
- Housing**
ABS
- Color**
Black
- Terminal**
Wire

		MEB2619E-B12W
Operating Voltage	[Vdc]	8 ~ 16
Rated Voltage	[Vdc]	12
※ Rated Current	[mA]	Max. 35
※ Sound Pressure Level	[dBA]	Min. 92 / 10cm
※ Resonant Frequency	[Hz]	400
Tone Nature		Single
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	17

※ value applying rated voltage

Dimensions [size : 26 X 26 X 19 mm]

Unit: mm / Tolerance ±0.5mm



04 Magnetic Transducer

	Size (mm)	Height (mm)	Rated Voltage (Vo-p)	Resistance (ohm)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Page No.
MT9040D-27A1-6.5P	10.8x9	4	1.5	6.5	2730	80 / 10cm	24
MT9040D-27A3-16P	10.8x9	4	3	16	2730	85 / 10cm	24
MT9650DP-27A3-16P	10.8x9.6	5	3	16	2731	85 / 10cm	24
MT9650DP-27A5-42P	10.8x9.6	5	5	42	2731	88 / 10cm	24
MT1260DP-27A1-6.5P	13.8x12	6.3	1.5	6.5	2731	88 / 10cm	24
MT1260DP-27A3-16P	13.8x12	6.3	3	16	2731	88 / 10cm	24
MT1275DP-27A3-16P	13.8x12	7	3	16	2731	88 / 10cm	24
MT1275DP-27A5-42P	13.8x12	7	5	42	2731	90 / 10cm	24
MT6737-31A3-16P	Ø6.7	3.7	3	16	3100	75 / 10cm	25
MT9042-27E3-16P	Ø9	4.2	3	16	2730	80 / 10cm	25
MT9042-27E5-42P	Ø9	4.2	5	42	2730	85 / 10cm	25
MT9055-27A1-5.5P	Ø9.2	5.5	1.5	5.5	2731	85 / 10cm	25
MT9055-27A3-16P	Ø9.2	5.5	3	16	2731	85 / 10cm	25
MT1254P-L20A1-16P	Ø12	5.5	1.5	16	2048	78 / 10cm	25
MT1254P-L20A3-16P	Ø12	5.5	3	16	2048	80 / 10cm	25
MT1254P-M20A1-5.5P	Ø12	5.5	1.5	5.5	2048	75 / 10cm	26
MT1254P-M20A5-42P	Ø12	5.5	5	42	2048	80 / 10cm	26
MT1265P-24A5-42P	Ø12	6.5	5	42	2400	80 / 10cm	26
MT1265P-27A12-140P	Ø12	6.5	12	140	2700	85 / 10cm	26
MT1285P-20A1-16P	Ø12	8.5	1.5	16	2048	80 / 10cm	26
MT1285P-20A5-50P	Ø12	8.5	5	50	2048	85 / 10cm	26
MT1290-24E5-47P	Ø12	9	5	47	2400	80 / 10cm	26
MT1290-24E12-140P	Ø12	9	12	140	2400	85 / 10cm	26
MT1295-24E3-16P	Ø12	9.5	3	16	2400	85 / 10cm	27
MT1295-20E5-45P	Ø12	9.5	5	45	2048	85 / 10cm	27
MT1450-M26A1-6.5P	Ø14	5	1.5	6.5	2670	85 / 10cm	27
MT1612-20E12-135P	Ø16	12	12	135	2000	85 / 10cm	27
MT1614-20E5-68P	Ø16	14	5	68	2048	85 / 10cm	27
MT1614-20E12-115P	Ø16	14	12	115	2048	85 / 10cm	27
MT2512-10E5-27P	Ø24.8	12.8	5	27	1000	85 / 10cm	28
MT2512-12E9-65P	Ø24.8	12.8	9	65	1200	85 / 10cm	28
SMT3220T-40A3-12	3.2x3.2	2	3	12	4000	65 / 5cm	28
SMT4020-40A3-17	4x4	2	3	17	4000	70 / 10cm	28
SMT4020T-40A3-17	4x4	2	3	17	4000	70 / 10cm	28
SMT5018S-40A3-12	5.2x5.2	1.8	3	12	4000	72 / 10cm	29
SMT5018T-40A3-12	5.2x5.2	1.8	3	12	4000	75 / 10cm	29
SMT5020S-40A3-12	5x5	2	3	12	4000	75 / 10cm	29
SMT5020T-40A3-12	5x5	2	3	12	4000	80 / 10cm	29
SMT5025-40A3-12	5x5	2.7	3	12	4000	75 / 10cm	30

Magnetic Transducer 04

	Size (mm)	Height (mm)	Rated Voltage (Vo-p)	Resistance (ohm)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Page No.
SMT5025T-40A3-12	5x5	2.5	3	12	4000	75 / 10cm	30
SMT5025T-40A3.6-12	5x5	2.5	3.6	12	4000	75 / 10cm	30
SMT5030S-40A3-12	5x5	3	3	12	4000	75 / 10cm	30
SMT5030S-40A5-17	5x5	3	5	17	4000	78 / 10cm	30
SMT5525-31A3-10	5.5x5.5	2.5	3	10	3100	85 / 5cm	30
SMT6540T-27A3.6-12	6.9x6.5	4	3.6	12	2700	85 / 10cm	31
SMT7525-27A3.6-15	7.5x7.5	2.5	3.6	15	2700	85 / 10cm	31
SMT7525-27A5-25	7.5x7.5	2.5	5	25	2700	80 / 10cm	31
SMT8025-27A3.6-16	8x8	2.5	3.6	16	2731	82 / 10cm	31
SMT8025A-27A3.6-16	8x8	2.5	3.6	16	2700	85 / 10cm	31
SMT8530-27A5-20	8.5x8.5	3	5	20	2700	85 / 10cm	32
SMT8530-31A3.6-16	8.5x8.5	3	3.6	16	3100	85 / 10cm	32
SMT8530T-27A3.6-16	8.5x8.5	3	3.6	16	2700	85 / 10cm	32
SMT8530T-27A3.6-20	8.5x8.5	3	3.6	20	2700	83 / 10cm	32
SMT8530TA-27A3.6-16	8.5x8.5	3	3.6	16	2730	85 / 10cm	32
SMT8532-27A3.6-20	8.5x8.5	3.2	3.6	20	2731	90 / 10cm	32
SMT8540C-24A3.6-16	8.5x8.5	4.2	3.6	16	2400	85 / 10cm	33
SMT8540C-40A5-16	8.5x8.5	4.2	5	16	4000	90 / 10cm	33
SMT8540T-27A3.6-16	8.5x8.5	4	3.6	16	2700	85 / 10cm	33
SMT8540T-40A5-13	8.5x8.5	4	5	13	4000	100 / 10cm	33
SMT9025D-27A3-16	10.5x9	2.5	3	16	2700	85 / 10cm	33
SMT9032D-27A3-16	10.5x9	3.2	3	16	2700	85 / 10cm	33
SMT9032D-27A3.6-16	10.5x9	3.2	3.6	16	2700	85 / 10cm	33
SMT9035D-27A3-16	10.5x9	3.5	3	16	2731	85 / 10cm	34
SMT9035D-27A3.6-16	10.5x9	3.5	3.6	16	2731	85 / 10cm	34
SMT9040D-27A3-16	10.5x9	4	3	16	2731	90 / 10cm	34
SMT9040DA-27A3.6-16	10.5x9	4	3.6	16	2700	85 / 10cm	34
SMT9045R-27A3-16	Ø9	4.5	3	16	2700	85 / 10cm	34
SMT9045T-30A3-18	9x9	4.5	3	18	3000	85 / 10cm	35
SMT1032-27A3-18	10x10	3.2	3	18	2700	85 / 10cm	35
SMT1032-28A3.6-18	10x10	3.2	3.6	18	2830	90 / 10cm	35
SMT1255-L20A1-16	12x12	5.6	1.5	16	2048	75 / 10cm	35
SMT1365T-24A1-16	12.8x12.8	6.5	1.5	16	2400	80 / 10cm	35
SMT1365T-24A5-45	12.8x12.8	6.5	5	45	2400	85 / 10cm	35
SMT1370T-24A5-47	12.8x12.8	7	5	47	2400	85 / 10cm	36
SMT1310T-24A5-47	12.8x12.8	10	5	47	2400	85 / 10cm	36
SMT141130-27A3-18	14x11	3	3	18	2700	85 / 10cm	36
SMT141130-27A5-40	14x11	3	5	40	2700	90 / 10cm	36
SMT141130S-27A5-40	14x11	3	5	40	2700	85 / 10cm	36

Magnetic Transducer

MT9040D Series

Housing

PPO

Color

Black

Terminal

Pin

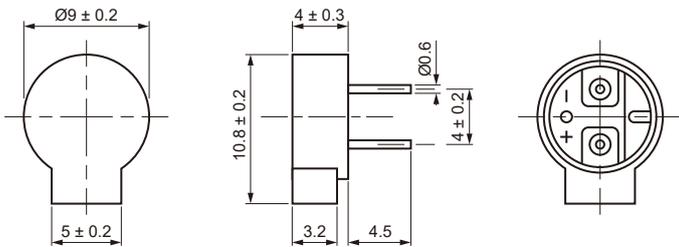
	MT9040D-27A1-6.5P	MT9040D-27A3-16P
Operating Voltage [Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage [Vo-p]	1.5	3
※ Rated Current [mA]	Max. 80	Max. 100
Resistance [ohm]	6.5 ± 1	16 ± 3
Resonant Frequency [Hz]	2730	2730
※ Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature [°C]	-20 ~ +60	-20 ~ +60
Weight [g]	1	1

	MT9040D-27A1-6.5P	MT9040D-27A3-16P
Operating Voltage [Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage [Vo-p]	1.5	3
※ Rated Current [mA]	Max. 80	Max. 100
Resistance [ohm]	6.5 ± 1	16 ± 3
Resonant Frequency [Hz]	2730	2730
※ Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature [°C]	-20 ~ +60	-20 ~ +60
Weight [g]	1	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.8 X 9 X 4 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer

MT9650DP Series

Housing

PPO

Color

Black

Terminal

Pin

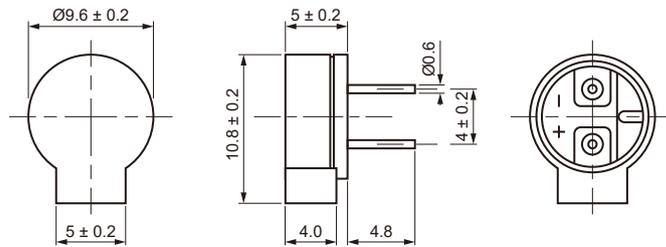
	MT9650DP-27A3-16P	MT9650DP-27A5-42P
Operating Voltage [Vo-p]	2 ~ 4	3 ~ 7
Rated Voltage [Vo-p]	3	5
※ Rated Current [mA]	Max. 80	Max. 80
Resistance [ohm]	16 ± 3	42 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 88 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1	1

	MT9650DP-27A3-16P	MT9650DP-27A5-42P
Operating Voltage [Vo-p]	2 ~ 4	3 ~ 7
Rated Voltage [Vo-p]	3	5
※ Rated Current [mA]	Max. 80	Max. 80
Resistance [ohm]	16 ± 3	42 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 85 / 10cm	Min. 88 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.8 X 9.6 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer

MT1260DP Series

Housing

PPO

Color

Black

Terminal

Pin

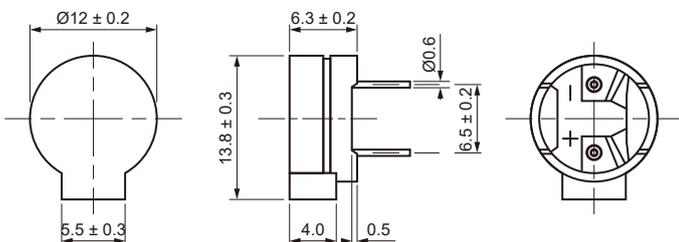
	MT1260DP-27A1-6.5P	MT1260DP-27A3-16P
Operating Voltage [Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage [Vo-p]	1.5	3
※ Rated Current [mA]	Max. 70	Max. 70
Resistance [ohm]	6.5 ± 1	16 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 88 / 10cm	Min. 88 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1.5	1.5

	MT1260DP-27A1-6.5P	MT1260DP-27A3-16P
Operating Voltage [Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage [Vo-p]	1.5	3
※ Rated Current [mA]	Max. 70	Max. 70
Resistance [ohm]	6.5 ± 1	16 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 88 / 10cm	Min. 88 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1.5	1.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 13.8 X 12 X 6.3 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer

MT1275DP Series

Housing

PPO

Color

Black

Terminal

Pin

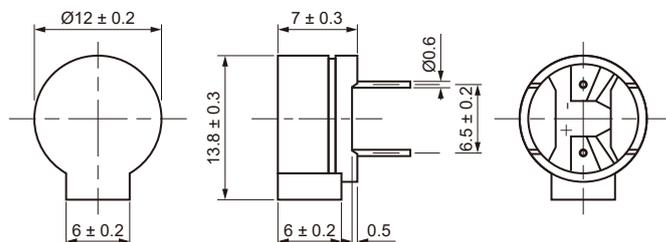
	MT1275DP-27A3-16P	MT1275DP-27A5-42P
Operating Voltage [Vo-p]	2 ~ 4	3 ~ 7
Rated Voltage [Vo-p]	3	5
※ Rated Current [mA]	Max. 70	Max. 70
Resistance [ohm]	16 ± 3	42 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 88 / 10cm	Min. 90 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1.5	1.5

	MT1275DP-27A3-16P	MT1275DP-27A5-42P
Operating Voltage [Vo-p]	2 ~ 4	3 ~ 7
Rated Voltage [Vo-p]	3	5
※ Rated Current [mA]	Max. 70	Max. 70
Resistance [ohm]	16 ± 3	42 ± 3
Resonant Frequency [Hz]	2731	2731
※ Sound Pressure Level [dBA]	Min. 88 / 10cm	Min. 90 / 10cm
Operating Temperature [°C]	-20 ~ +70	-20 ~ +70
Weight [g]	1.5	1.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 13.8 X 12 X 7 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT6737 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

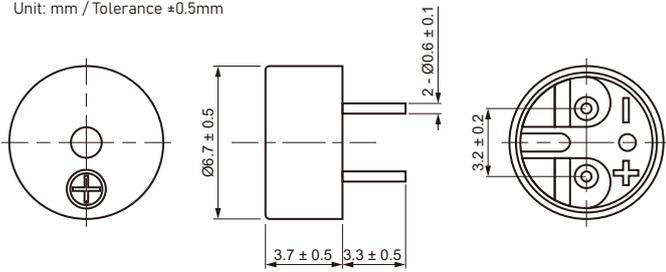
MT6737-31A3-16P

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 80
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	3100
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.7

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø6.7 X 3.7 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT9042 Series



- Housing**
PPO / PBT
- Color**
Black
- Terminal**
Pin

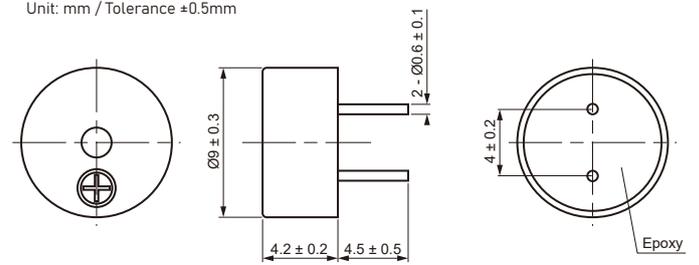
MT9042-27E3-16P | **MT9042-27E5-42P**

Operating Voltage	[Vo-p]	2 ~ 4	4 ~ 6
Rated Voltage	[Vo-p]	3	5
※ Rated Current	[mA]	Max. 100	Max. 60
Resistance	[ohm]	16 ± 3	42 ± 3
Resonant Frequency	[Hz]	2730	2730
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +85
Weight	[g]	0.8	0.8

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø9 X 4.2 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT9055 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

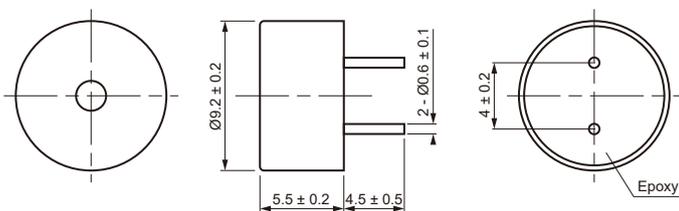
MT9055-27A1-5.5P | **MT9055-27A3-16P**

Operating Voltage	[Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage	[Vo-p]	1.5	3
※ Rated Current	[mA]	Max. 80	Max. 80
Resistance	[ohm]	5.5 ± 1	16 ± 3
Resonant Frequency	[Hz]	2731	2731
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø9.2 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT1254P Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

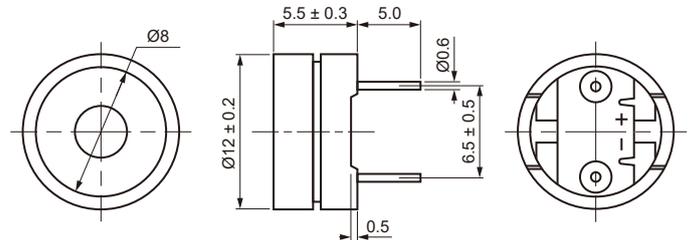
MT1254P-L20A1-16P | **MT1254P-L20A3-16P**

Operating Voltage	[Vo-p]	1 ~ 3	2 ~ 4
Rated Voltage	[Vo-p]	1.5	3
※ Rated Current	[mA]	Max. 30	Max. 30
Resistance	[ohm]	16 ± 3	16 ± 3
Resonant Frequency	[Hz]	2048	2048
※ Sound Pressure Level	[dBA]	Min. 78 / 10cm	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.5	1.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer MT1254P Series



Housing
PPO
Color
Black
Terminal
Pin

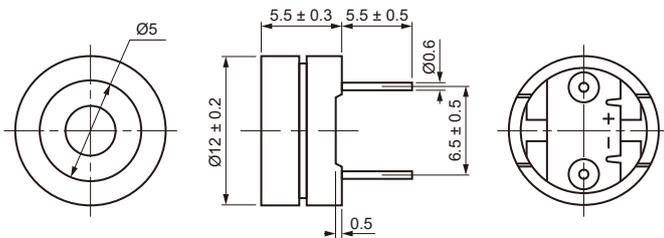
MT1254P-M20A1-5.5P MT1254P-M20A5-42P

Operating Voltage	[Vo-p]	1 ~ 2	4 ~ 7
Rated Voltage	[Vo-p]	1.5	5
※ Rated Current	[mA]	Max. 30	Max. 30
Resistance	[ohm]	5.5 ± 1	42 ± 3
Resonant Frequency	[Hz]	2048	2048
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.5	1.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer MT1265P Series



Housing
PPO
Color
Black
Terminal
Pin

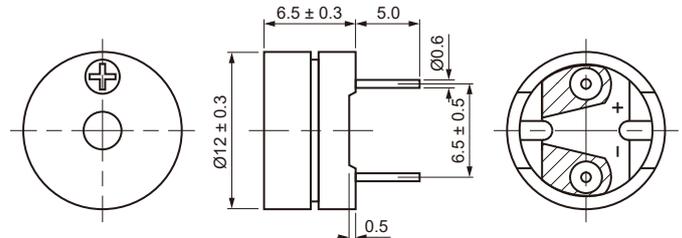
MT1265P-24A5-42P MT1265P-27A12-140P

Operating Voltage	[Vo-p]	4 ~ 6	9 ~ 15
Rated Voltage	[Vo-p]	5	12
※ Rated Current	[mA]	Max. 30	Max. 60
Resistance	[ohm]	42 ± 3	140 ± 14
Resonant Frequency	[Hz]	2400	2700
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	2	2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 6.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer MT1285P Series



Housing
Noryl
Color
Black
Terminal
Pin

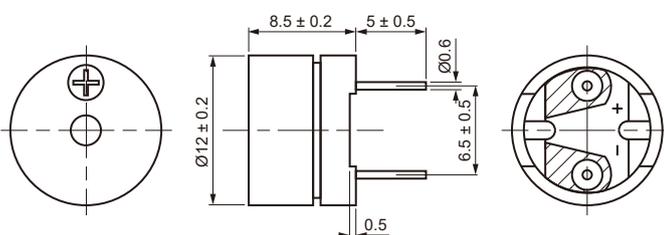
MT1285P-20A1-16P MT1285P-20A5-50P

Operating Voltage	[Vo-p]	1 ~ 3	3 ~ 8
Rated Voltage	[Vo-p]	1.5	5
※ Rated Current	[mA]	Max. 30	Max. 30
Resistance	[ohm]	16 ± 3	50 ± 5
Resonant Frequency	[Hz]	2048	2048
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.3	1.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 8.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer MT1290 Series



Housing
PPO
Color
Black
Terminal
Pin

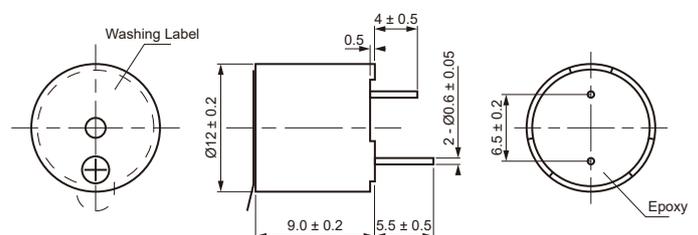
MT1290-24E5-47P MT1290-24E12-140P

Operating Voltage	[Vo-p]	3 ~ 8	6 ~ 15
Rated Voltage	[Vo-p]	5	12
※ Rated Current	[mA]	Max. 40	Max. 40
Resistance	[ohm]	47 ± 5	140 ± 14
Resonant Frequency	[Hz]	2400	2400
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	2	2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 9 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT1295 Series



- Housing**
PPO
- Color**
Black
- Terminal**
Pin

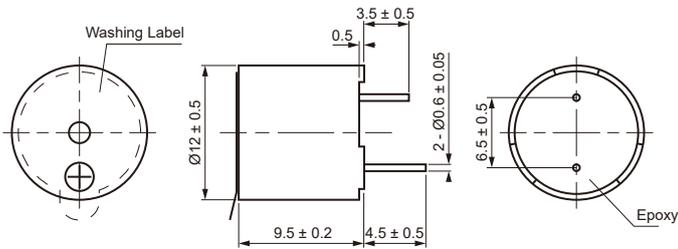
MT1295-24E3-16P **MT1295-20E5-45P**

Operating Voltage	[Vo-p]	2 ~ 5	4.5 ~ 5.5
Rated Voltage	[Vo-p]	3	5
※ Rated Current	[mA]	Max. 40	Max. 40
Resistance	[ohm]	16 ± 2	45 ± 5
Resonant Frequency	[Hz]	2400	2048
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.8	1.8

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 9.5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT1450 Series



- Housing**
Noryl
- Color**
Black
- Terminal**
Pin

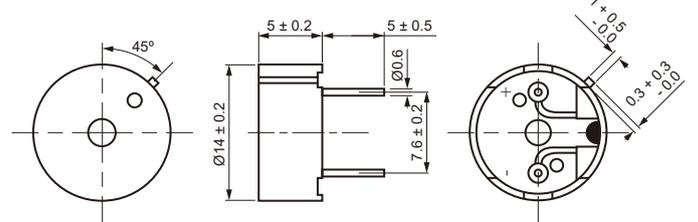
MT1450-M26A1-6.5P

Operating Voltage	[Vo-p]	1 ~ 2
Rated Voltage	[Vo-p]	1.5
※ Rated Current	[mA]	Max. 70
Resistance	[ohm]	6.5 ± 1
Resonant Frequency	[Hz]	2670
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø14 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT1612 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

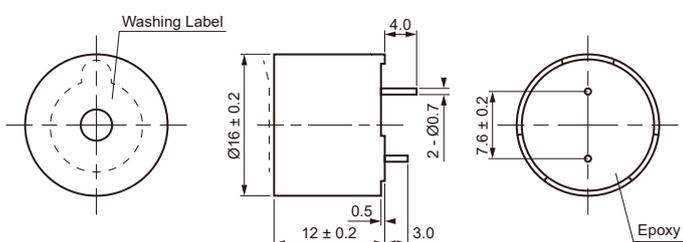
MT1612-20E12-135P

Operating Voltage	[Vo-p]	8 ~ 16
Rated Voltage	[Vo-p]	12
※ Rated Current	[mA]	Max. 50
Resistance	[ohm]	135 ± 20
Resonant Frequency	[Hz]	2000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-40 ~ +90
Weight	[g]	3.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø16 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
MT1614 Series



- Housing**
PPO / Noryl
- Color**
Black
- Terminal**
Pin

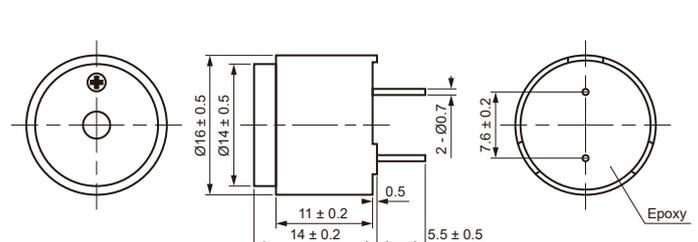
MT1614-20E5-68P **MT1614-20E12-115P**

Operating Voltage	[Vo-p]	4 ~ 7	9 ~ 15
Rated Voltage	[Vo-p]	5	12
※ Rated Current	[mA]	Max. 40	Max. 40
Resistance	[ohm]	68 ± 8	115 ± 12
Resonant Frequency	[Hz]	2048	2048
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +70
Weight	[g]	5	5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø16 X 14 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer MT2512 Series



Housing
Noryl / PPO

Color
Black

Terminal
Pin

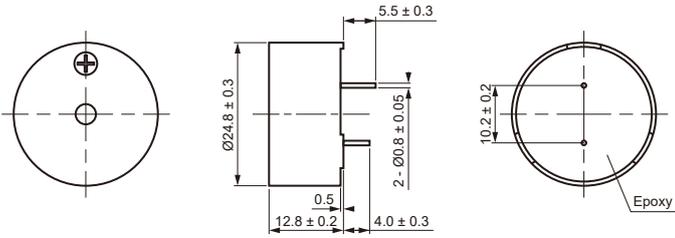
MT2512-10E5-27P MT2512-12E9-65P

Operating Voltage	[Vo-p]	3 ~ 7	6 ~ 12
Rated Voltage	[Vo-p]	5	9
※ Rated Current	[mA]	Max. 80	Max. 80
Resistance	[ohm]	27 ± 4	65 ± 10
Resonant Frequency	[Hz]	1000	1200
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +60
Weight	[g]	8.5	8.5

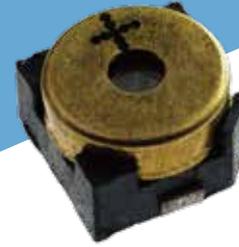
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø24.8 X 12.8 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer SMT3220T Series



Housing
Brass + LCP

Color
Gold

Terminal
SMT

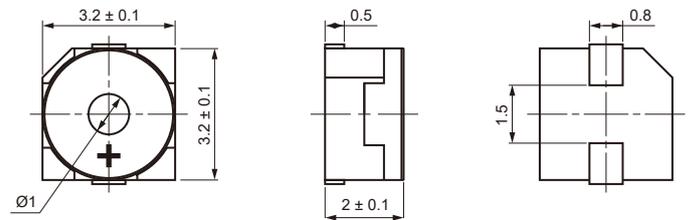
SMT3220T-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 120
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 65 / 5cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 3.2 X 3.2 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer SMT4020 Series



Housing
LCP

Color
Black

Terminal
SMT

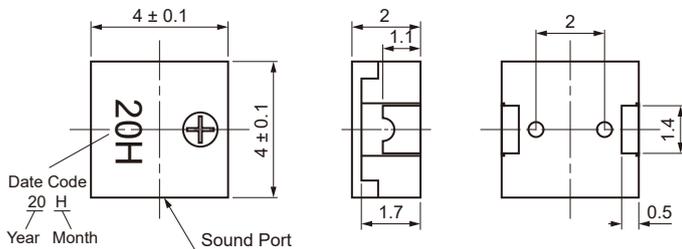
SMT4020-40A3-17

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 90
Resistance	[ohm]	17 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 70 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 4 X 4 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer SMT4020T Series



Housing
LCP

Color
Black

Terminal
SMT

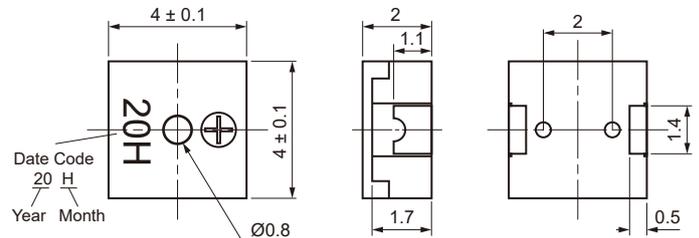
SMT4020T-40A3-17

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 90
Resistance	[ohm]	17 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 70 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 4 X 4 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT5018S Series



Housing
Aluminum + LCP
Color
Silver
Terminal
SMT

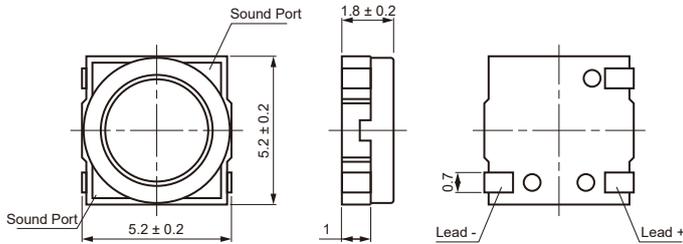
SMT5018S-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 72 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5.2 X 5.2 X 1.8 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT5018T Series



Housing
Brass + LCP
Color
Gold
Terminal
SMT

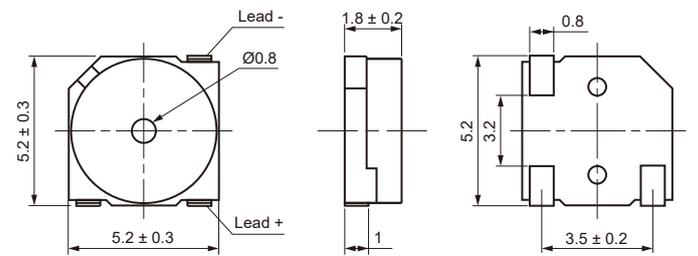
SMT5018T-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5.2 X 5.2 X 1.8 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT5020S Series



Housing
LCP
Color
Black
Terminal
SMT

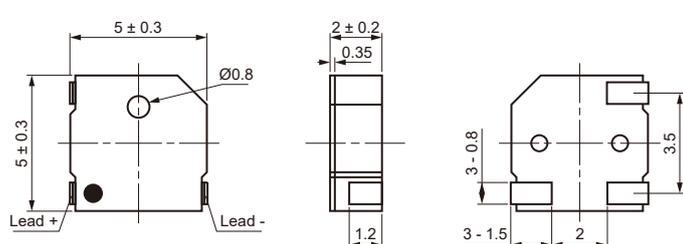
SMT5020S-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 110
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5 X 5 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT5020T Series



Housing
LCP
Color
Black
Terminal
SMT

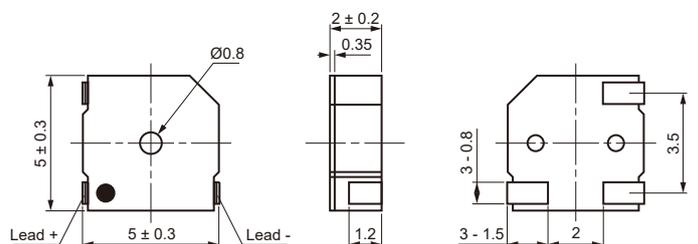
SMT5020T-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5 X 5 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT5025 Series

Housing

LCP

Color

Black

Terminal

SMT

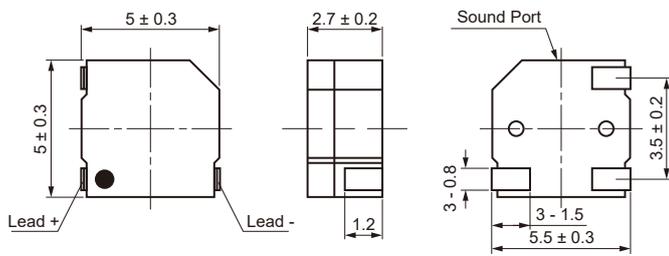
SMT5025-40A3-12

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	12 ± 3
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5 X 5 X 2.7 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT5025T Series

Housing

LCP

Color

Black

Terminal

SMT

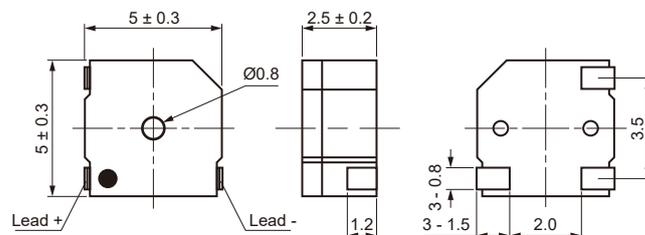
SMT5025T-40A3-12**SMT5025T-40A3.6-12**

Operating Voltage	[Vo-p]	2 ~ 4	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3	3.6
※ Rated Current	[mA]	Max. 100	Max. 100
Resistance	[ohm]	12 ± 3	12 ± 3
Resonant Frequency	[Hz]	4000	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm	Min. 75 / 10cm
Operating Temperature	[°C]	-30 ~ +70	-30 ~ +70
Weight	[g]	0.2	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5 X 5 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT5030S Series

Housing

LCP

Color

Black

Terminal

SMT

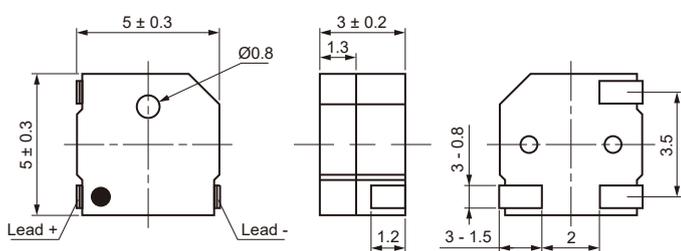
SMT5030S-40A3-12**SMT5030S-40A5-17**

Operating Voltage	[Vo-p]	2 ~ 4	3 ~ 7
Rated Voltage	[Vo-p]	3	5
※ Rated Current	[mA]	Max. 110	Max. 130
Resistance	[ohm]	12 ± 3	17 ± 3
Resonant Frequency	[Hz]	4000	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm	Min. 78 / 10cm
Operating Temperature	[°C]	-30 ~ +70	-30 ~ +70
Weight	[g]	0.3	0.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5 X 5 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT5525 Series

Housing

SUS + LCP

Color

Silver

Terminal

SMT

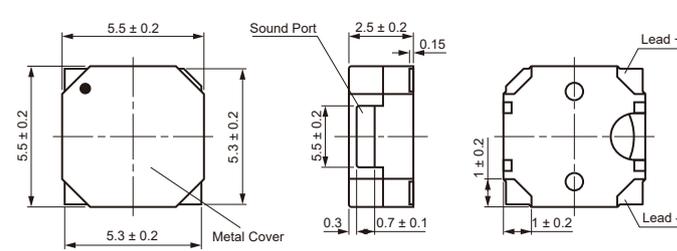
SMT5525-31A3-10

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 120
Resistance	[ohm]	10 ± 1.5
Resonant Frequency	[Hz]	3100
※ Sound Pressure Level	[dBA]	Min. 85 / 5cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 5.5 X 5.5 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT6540T Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

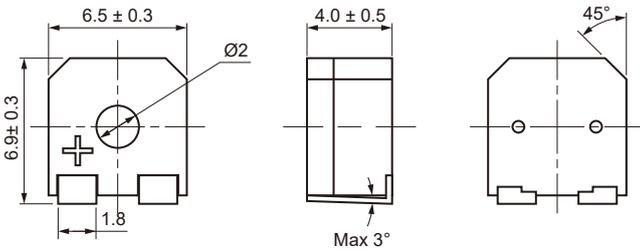
SMT6540T-27A3.6-12

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 120
Resistance	[ohm]	12 ± 2
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 6.9 X 6.5 X 4 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT7525 Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

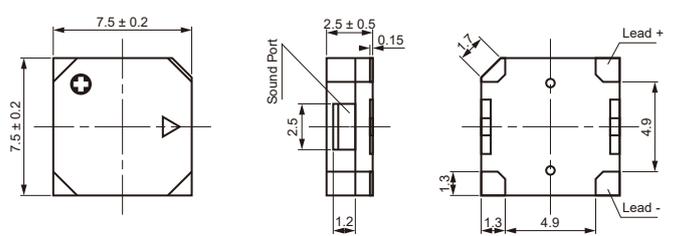
SMT7525-27A3.6-15 **SMT7525-27A5-25**

Operating Voltage	[Vo-p]	2.5 ~ 4.5	4 ~ 7
Rated Voltage	[Vo-p]	3.6	5
※ Rated Current	[mA]	Max. 100	Max. 110
Resistance	[ohm]	15 ± 3	25 ± 5
Resonant Frequency	[Hz]	2700	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-30 ~ +70
Weight	[g]	0.3	0.3

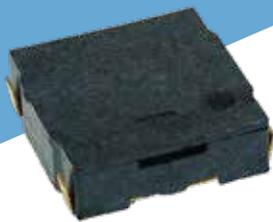
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 7.5 X 7.5 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT8025 Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

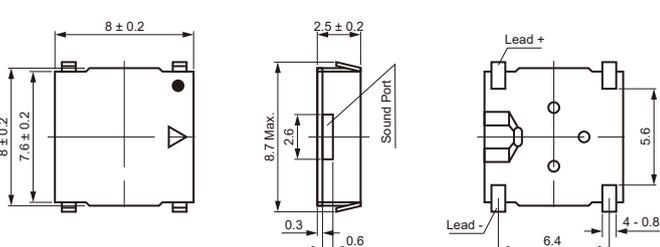
SMT8025-27A3.6-16

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 90
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2731
※ Sound Pressure Level	[dBA]	Min. 82 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8 X 8 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT8025A Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

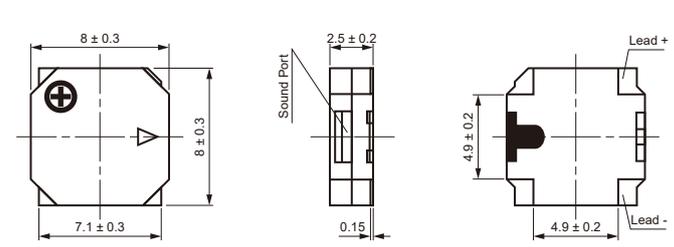
SMT8025A-27A3.6-16

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	0.4

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8 X 8 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT8530 Series

Housing

LCP

Color

Black

Terminal

SMT

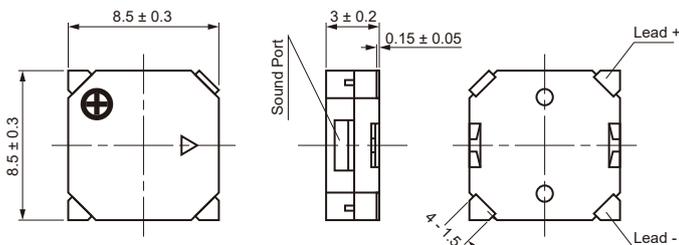
SMT8530-27A5-20 SMT8530-31A3.6-16

Operating Voltage	[Vo-p]	4 ~ 6	2.5 ~ 4.5
Rated Voltage	[Vo-p]	5	3.6
※ Rated Current	[mA]	Max. 130	Max. 100
Resistance	[ohm]	20 ± 3	16 ± 3
Resonant Frequency	[Hz]	2700	3100
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	0.5	0.5

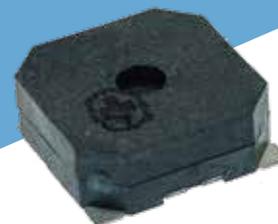
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT8530T Series

Housing

LCP

Color

Black

Terminal

SMT

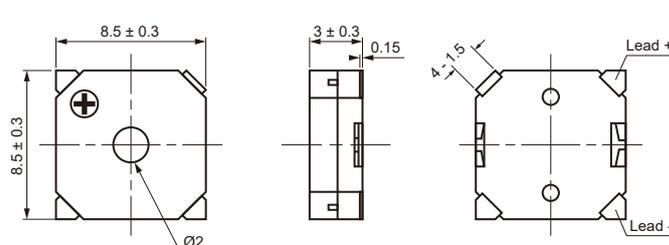
SMT8530T-27A3.6-16 SMT8530T-27A3.6-20

Operating Voltage	[Vo-p]	2.5 ~ 4.5	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6	3.6
※ Rated Current	[mA]	Max. 100	Max. 80
Resistance	[ohm]	16 ± 3	20 ± 3
Resonant Frequency	[Hz]	2700	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 83 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	0.6	0.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT8530TA Series

Housing

LCP

Color

Black

Terminal

SMT

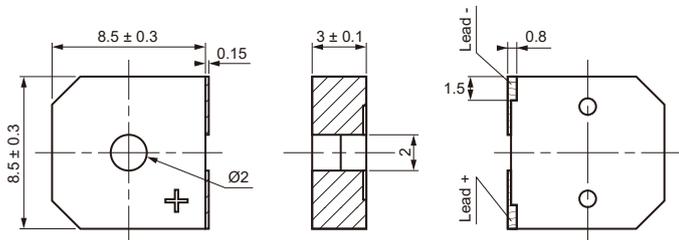
SMT8530TA-27A3.6-16

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2730
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT8532 Series

Housing

LCP

Color

White

Terminal

SMT

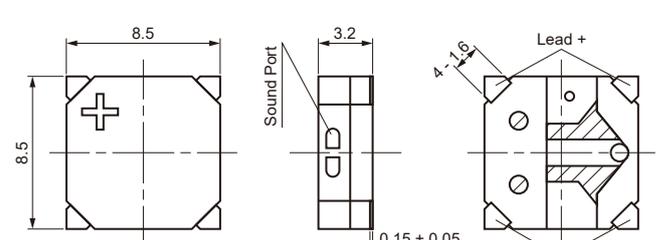
SMT8532-27A3.6-20

Operating Voltage	[Vo-p]	3 ~ 5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 80
Resistance	[ohm]	20 ± 3
Resonant Frequency	[Hz]	2731
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	0.7

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 3.2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT8540C Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

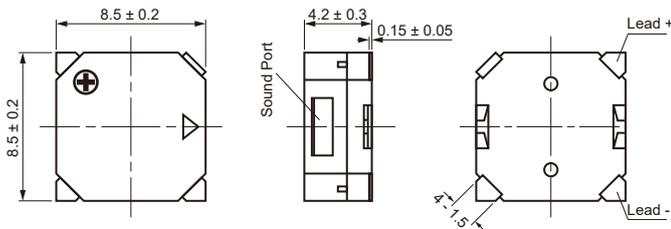
SMT8540C-24A3.6-16 **SMT8540C-40A5-16**

Operating Voltage	[Vo-p]	2.5 ~ 4.5	4 ~ 6
Rated Voltage	[Vo-p]	3.6	5
※ Rated Current	[mA]	Max. 100	Max. 130
Resistance	[ohm]	16 ± 3	16 ± 3
Resonant Frequency	[Hz]	2400	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	0.6	0.6

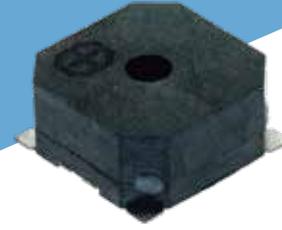
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 4.2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT8540T Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

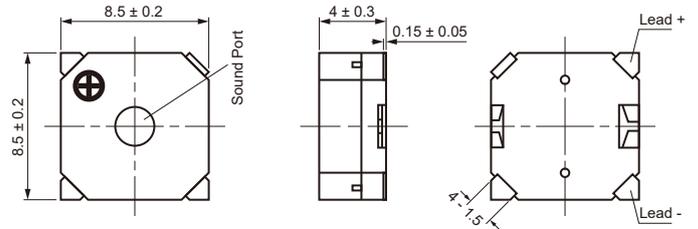
SMT8540T-27A3.6-16 **SMT8540T-40A5-13**

Operating Voltage	[Vo-p]	2.5 ~ 4.5	4 ~ 7
Rated Voltage	[Vo-p]	3.6	5
※ Rated Current	[mA]	Max. 100	Max. 100
Resistance	[ohm]	16 ± 3	13 ± 3
Resonant Frequency	[Hz]	2700	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 100 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	0.6	0.7

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 8.5 X 8.5 X 4 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT9025D Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

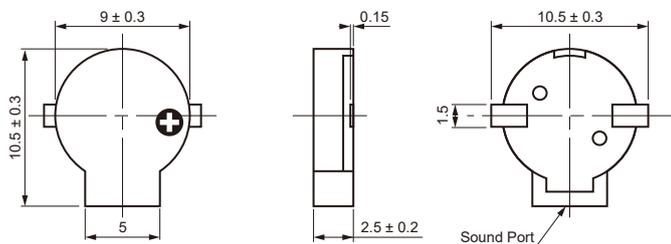
SMT9025D-27A3-16

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	0.6

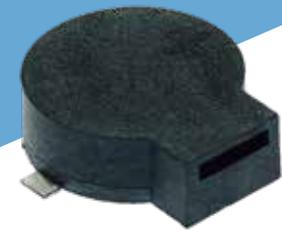
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.5 X 9 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT9032D Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

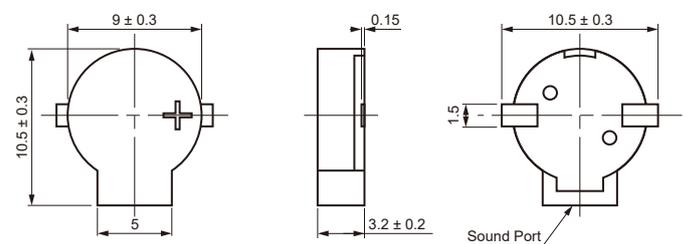
SMT9032D-27A3-16 **SMT9032D-27A3.6-16**

Operating Voltage	[Vo-p]	2 ~ 4	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3	3.6
※ Rated Current	[mA]	Max. 100	Max. 100
Resistance	[ohm]	16 ± 3	16 ± 3
Resonant Frequency	[Hz]	2700	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	0.6	0.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.5 X 9 X 3.2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT9035D Series

Housing

LCP

Color

Black

Terminal

SMT

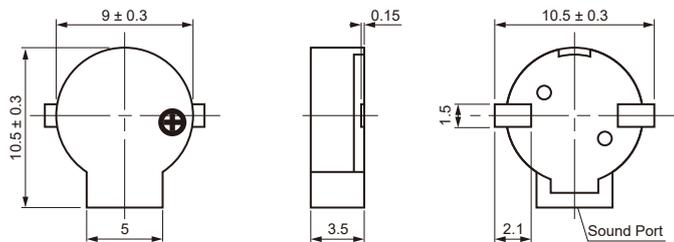
SMT9035D-27A3-16 SMT9035D-27A3.6-16

Operating Voltage	[Vo-p]	2 ~ 4.5	2 ~ 4.5
Rated Voltage	[Vo-p]	3	3.6
※ Rated Current	[mA]	Max. 80	Max. 80
Resistance	[ohm]	16 ± 3	16 ± 3
Resonant Frequency	[Hz]	2731	2731
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-30 ~ +70	-30 ~ +70
Weight	[g]	0.6	0.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.5 X 9 X 3.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT9040D Series

Housing

LCP

Color

Black

Terminal

SMT

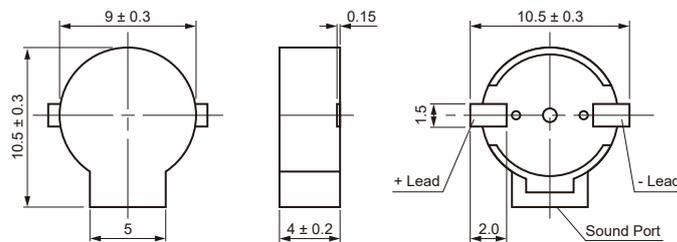
SMT9040D-27A3-16

Operating Voltage	[Vo-p]	2 ~ 5
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2731
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.5 X 9 X 4 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT9040DA Series

Housing

PPS

Color

Black

Terminal

SMT

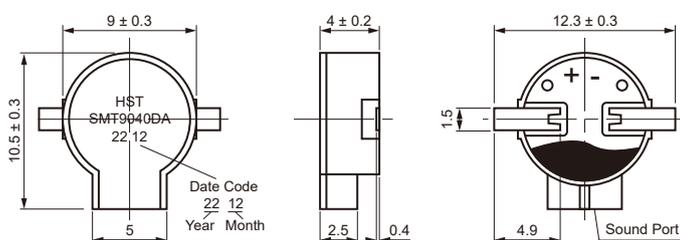
SMT9040DA-27A3.6-16

Operating Voltage	[Vo-p]	2.5 ~ 4.5
Rated Voltage	[Vo-p]	3.6
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10.5 X 9 X 4 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT9045R Series

Housing

PPS

Color

Black

Terminal

SMT

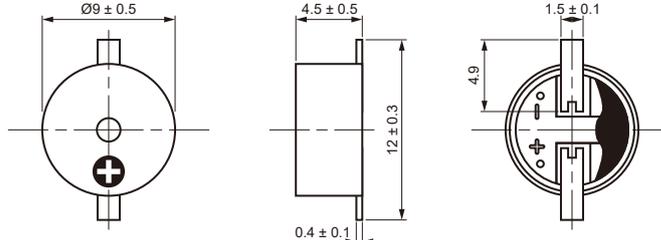
SMT9045R-27A3-16

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 100
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.8

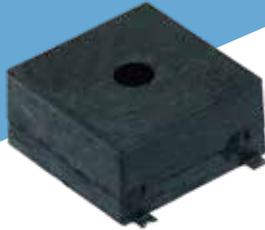
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø9 X 4.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT9045T Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

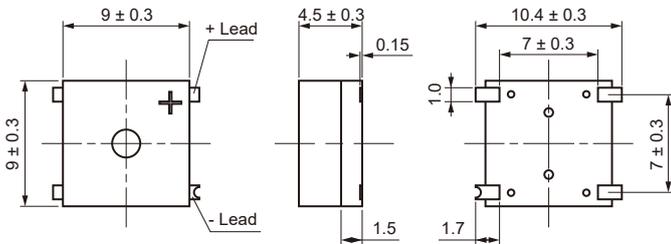
SMT9045T-30A3-18

Operating Voltage	[Vo-p]	2 ~ 4
Rated Voltage	[Vo-p]	3
※ Rated Current	[mA]	Max. 80
Resistance	[ohm]	18 ± 3
Resonant Frequency	[Hz]	3000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.6

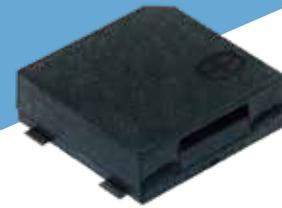
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 9 X 9 X 4.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT1032 Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

SMT1032-27A3-18

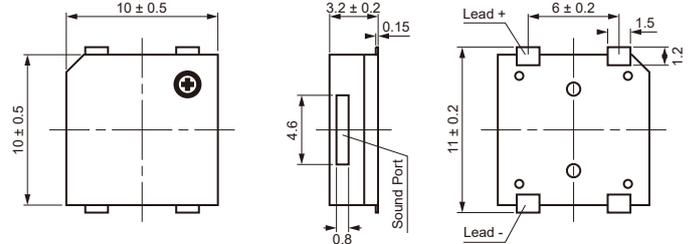
SMT1032-28A3.6-18

Operating Voltage	[Vo-p]	2 ~ 5	2 ~ 5
Rated Voltage	[Vo-p]	3	3.6
※ Rated Current	[mA]	Max. 100	Max. 100
Resistance	[ohm]	18 ± 3	18 ± 3
Resonant Frequency	[Hz]	2700	2830
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-40 ~ +85
Weight	[g]	0.8	0.8

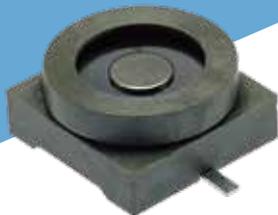
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10 X 10 X 3.2 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer
SMT1255 Series



- Housing**
PPS
- Color**
Grey
- Terminal**
SMT

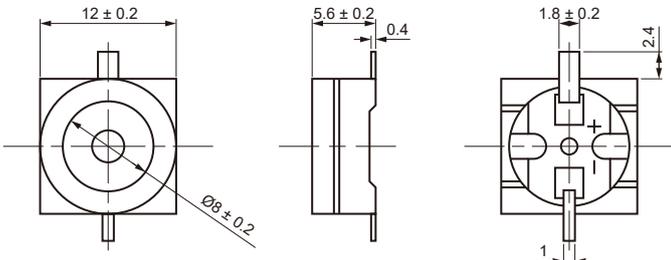
SMT1255-L20A1-16

Operating Voltage	[Vo-p]	1 ~ 3
Rated Voltage	[Vo-p]	1.5
※ Rated Current	[mA]	Max. 40
Resistance	[ohm]	16 ± 3
Resonant Frequency	[Hz]	2048
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	1.8

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12 X 12 X 5.6 mm]

Unit: mm / Tolerance ±0.5mm



Magnetic Transducer
SMT1365T Series



- Housing**
PPS
- Color**
Grey
- Terminal**
SMT

SMT1365T-24A1-16

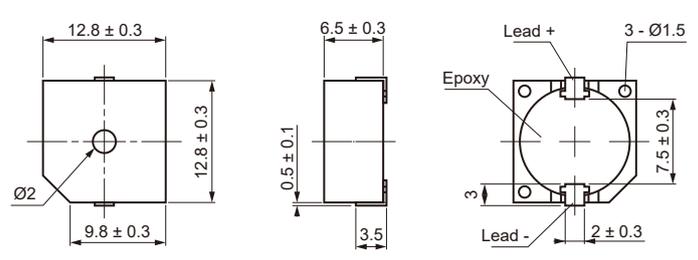
SMT1365T-24A5-45

Operating Voltage	[Vo-p]	1 ~ 3	4 ~ 7
Rated Voltage	[Vo-p]	1.5	5
※ Rated Current	[mA]	Max. 50	Max. 50
Resistance	[ohm]	16 ± 3	45 ± 5
Resonant Frequency	[Hz]	2400	2400
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	2	2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12.8 X 12.8 X 6.5 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT1370T Series

Housing
PPS
Color
Black
Terminal
SMT

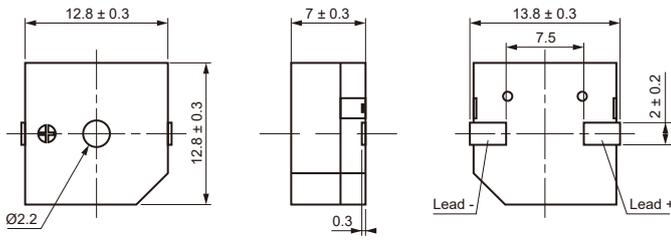
SMT1370T-24A5-47

Operating Voltage	[Vo-p]	3 ~ 7
Rated Voltage	[Vo-p]	5
※ Rated Current	[mA]	Max. 90
Resistance	[ohm]	47 ± 5
Resonant Frequency	[Hz]	2400
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	2

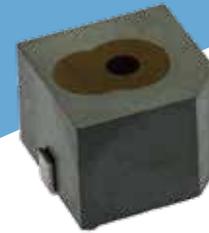
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12.8 X 12.8 X 7 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT1310T Series

Housing
PPS
Color
Grey
Terminal
SMT

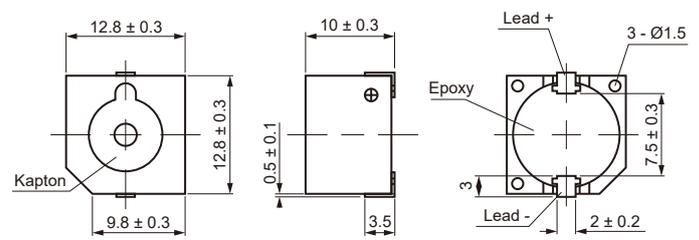
SMT1310T-24A5-47

Operating Voltage	[Vo-p]	4 ~ 8
Rated Voltage	[Vo-p]	5
※ Rated Current	[mA]	Max. 40
Resistance	[ohm]	47 ± 5
Resonant Frequency	[Hz]	2400
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	2.5

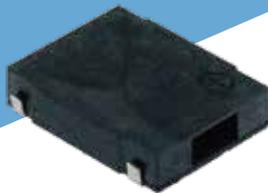
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12.8 X 12.8 X 10 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT141130 Series

Housing
LCP
Color
Black
Terminal
SMT

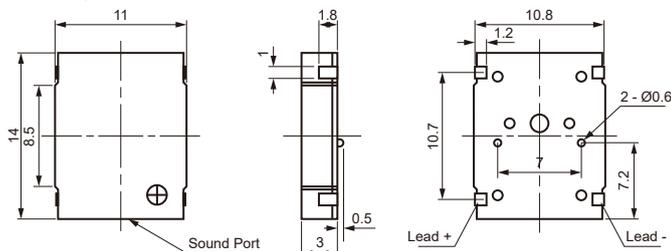
SMT141130-27A3-18**SMT141130-27A5-40**

Operating Voltage	[Vo-p]	2 ~ 4	4 ~ 6
Rated Voltage	[Vo-p]	3	5
※ Rated Current	[mA]	Max. 100	Max. 90
Resistance	[ohm]	18 ± 3	40 ± 3
Resonant Frequency	[Hz]	2700	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1	1

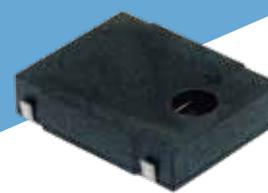
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14 X 11 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Magnetic Transducer

SMT141130S Series

Housing
LCP
Color
Black
Terminal
SMT

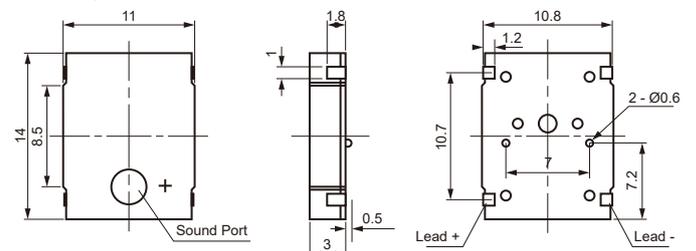
SMT141130S-27A5-40

Operating Voltage	[Vo-p]	3 ~ 7
Rated Voltage	[Vo-p]	5
※ Rated Current	[mA]	Max. 80
Resistance	[ohm]	40 ± 5
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14 X 11 X 3 mm]

Unit: mm / Tolerance ±0.3mm



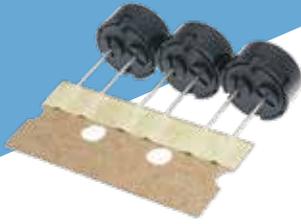
External Drive Piezo Transducer 05

	Size (mm)	Height (mm)	Rated Voltage (Vp-p)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Capacitance (pF)	Page No.
PT1306-40A8-P5	Ø12.6	7	5	4000	78 / 10cm	8000	39
PT1255-40A12-P6.5	Ø12	5.5	12	4000	80 / 10cm	12000	39
PT1207F-40A9-P5	Ø12.5	7	6	4000	85 / 10cm	9000	39
PT1404F-40A14-P7.6	Ø14	4.5	5	4000	80 / 10cm	12000	39
PT1407-40E10-P7.6	Ø13.8	6.8	5	4000	80 / 10cm	10000	40
PT1745F-40A15-P10	Ø17	5	12	4000	85 / 10cm	15000	40
PT1707-40E15-P10	Ø16.8	8.2	12	4000	85 / 10cm	15000	40
PT2207F-40A13-P10	Ø22	8.2	12	4000	88 / 10cm	13000	40
PT2212F-40A18-P10	Ø22	12.5	12	4000	90 / 10cm	18000	41
PT2310-38A28-P15	Ø22.6	10.5	12	3800	85 / 10cm	28000	41
PT2316-27E25-P15	Ø23	16	12	2700	90 / 10cm	25000	41
PT2475-40A17-P10	Ø24	7.5	9	4000	85 / 10cm	17000	41
PT2416-30E28-P15	Ø24	16	5	3000	90 / 10cm	28000	42
PT3007-36A25-P15	Ø30	7.5	12	3600	85 / 10cm	25000	42
PT3010-36A25-P20	Ø30	9.5	12	3600	85 / 10cm	25000	42
PT3015-33A30-P15	Ø30	14.8	5	3300	85 / 10cm	30000	42
PT3509-10A55-P25	Ø34	8.6	14	1000	80 / 10cm	55000	43
PT4414-23A90-P25	Ø44	14	5	2300	85 / 10cm	90000	43
PT1025-40A6-W	Ø10	2.6	5	4000	80 / 10cm	6000	43
PT1325-70A11-W	Ø13.2	2.6	9	7000	80 / 10cm	11000	43
PT1425-52A10-W	Ø14	2.5	9	5200	85 / 10cm	10000	44
PT1733-45A15-W	Ø16.8	3.3	9	4500	80 / 10cm	15000	44
PT2245-50A15-W	Ø22	4.5	5	5000	85 / 10cm	15000	44
PT3005-36A25-W	Ø30	5	12	3600	80 / 10cm	25000	44
PT2305E-40A15-W	Ø23	5	12	4000	80 / 10cm	15000	45
PT2455E-40A15-W	Ø24	5.5	12	4000	80 / 10cm	15000	45
PT3055E-40A25-W	Ø30	5.5	10	4000	85 / 10cm	25000	45
PT3509E-10A50-W	Ø34.5	9	12	1000	80 / 10cm	50000	45
PT4216E-28A25-W	Ø42	16	12	2800	85 / 10cm	25000	46
PT4414E-25A80-W	Ø44	14.5	5	2500	85 / 10cm	80000	46
SPT9020T-40A12	9x9	1.8	3	4000	65 / 10cm	12000	46
SPT1030-52A12	10x10	3	5	5200	70 / 10cm	12000	46
SPT1030R-52A11	Ø10	3.1	5	5200	75 / 10cm	11000	47
SPT119017T-41A12	11x9	1.7	5	4100	70 / 10cm	12000	47
SPT1225T-41A16	12x12	2.5	9	4100	75 / 10cm	16000	47
SPT1230A-40A16	12x12	3	3	4000	75 / 10cm	16000	47
SPT1325-41A16	13x13	2.5	5	4100	80 / 10cm	16000	48
SPT1325T-40A15	13x13	2.5	5	4000	80 / 10cm	15000	48
SPT1440-40A12	14x14	4.1	5	4000	80 / 10cm	12000	48

05 External Drive Piezo Transducer

	Size (mm)	Height (mm)	Rated Voltage (Vp-p)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Capacitance (pF)	Page No.
SPT1440T-40A12	14x14	4.3	5	4000	80 / 10cm	12000	48
SPT1470T-40A16	14x14	7	5	4000	85 / 10cm	16000	49
SPT1580T-36A15	14.8x14.8	7.4	7	3650	85 / 10cm	15000	49
SPT1625-40A16	16x16	2.5	5	4000	75 / 10cm	16000	49
SPT1750R-40A15	Ø17	5	12	4000	90 / 10cm	15000	49
SPT1780T-50A15	17x17	7.8	10	5000	90 / 10cm	15000	50
SPT1808T-20A20	18x18	8	12	2000	90 / 10cm	20000	50
SPT1812T30A20	18x18	12	10	3000	86 / 10cm	20000	50
SPT2270R-40A19	Ø22	7	12	4000	90 / 10cm	19000	50
SPT2311R-40A19	Ø23	10.8	12	4000	95 / 10cm	19000	51
XPT3017-32A17-W	Ø30	16.5	9	3200	90 / 30cm	17000	51
XPT272207-20A32-T	26.5x22	7	5	2000	80 / 10cm	32000	51
XPT2211-25A28-T	Ø21.5	11	5	2500	80 / 10cm	28000	51
XPT2104-41A25-W	Ø21.5	4	3	4100	92 / 10cm	25000	52
XPT50R-12A65-W	Ø50	2.2	12	1200	70 / 10cm	65000	52
XPT27AL-X236	Ø27.5	2.5	5	4200	80 / 10cm	33000	52
XPT48HPVC-32A140-W	Ø47.7	9.2	12	3200	105 / 10cm	140000	52
XPT5426-28A30-W	Ø54	26	12	2800	102 / 100cm	30000	53
XPT4514E-30A140-T	Ø45	13.7	12	3000	100 / 30cm	140000	53
XPT5215A-30A120-T	Ø51.5	15.4	18	1000	105 / 10cm	120000	53
XPT5018E-X366	Ø50	18	12	3000	100 / 100cm	68000	53

External Drive Piezo Transducer
PT1306 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

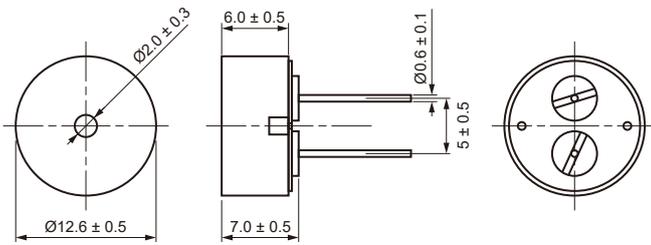
PT1306-40A8-P5

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	8000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 78 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.5

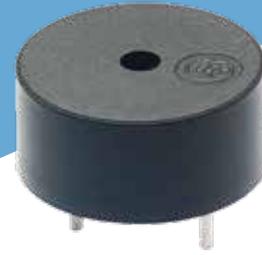
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12.6 X 7 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
PT1255 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

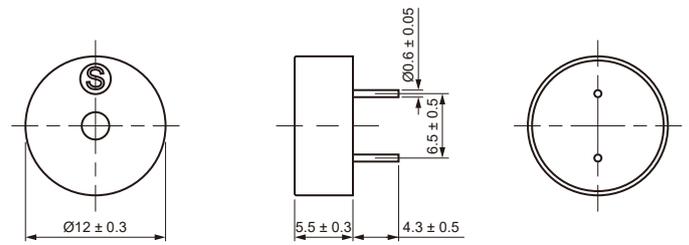
PT1255-40A12-P6.5

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.5

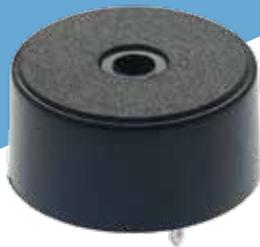
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12 X 5.5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
PT1207F Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

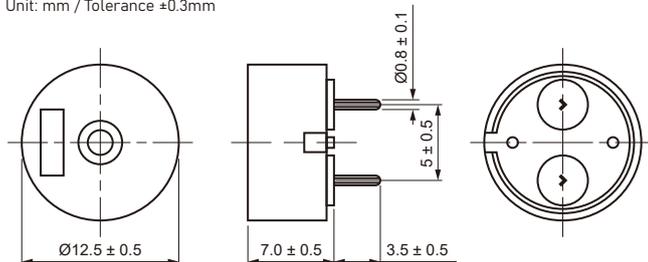
PT1207F-40A9-P5

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	6
※ Rated Current	[mA]	Max. 8
Capacitance	[pF]	9000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø12.5 X 7 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
PT1404F Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

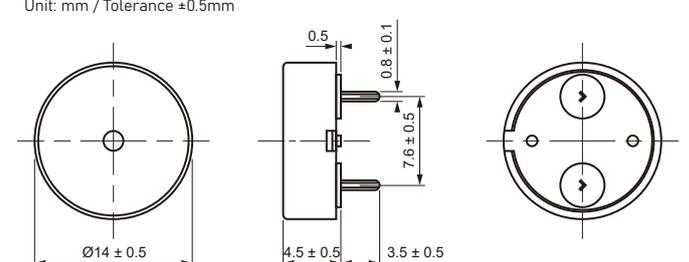
PT1404F-40A14-P7.6

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.7

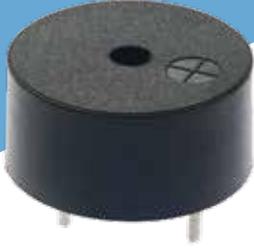
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø14 X 4.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT1407 Series

Housing

PPO

Color

Black

Terminal

Pin

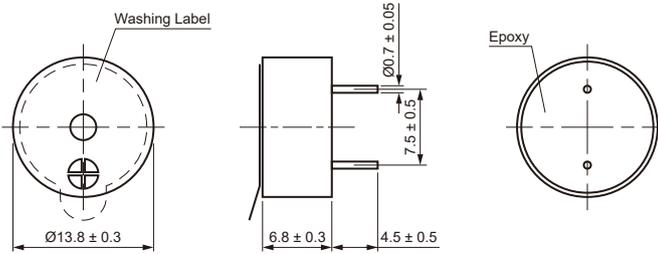
PT1407-40E10-P7.6

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	10000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø13.8 X 6.8 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

PT1745F Series

Housing

PPO

Color

Black

Terminal

Pin

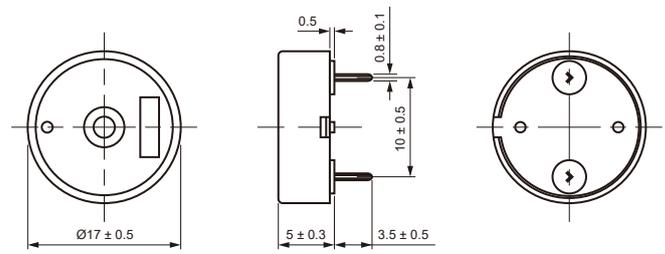
PT1745F-40A15-P10

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	1.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø17 X 5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT1707 Series

Housing

ABS

Color

Black

Terminal

Pin

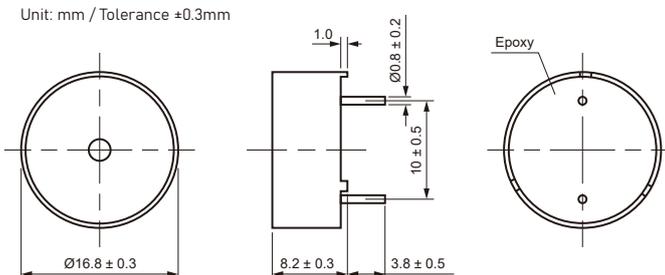
PT1707-40E15-P10

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	1.3

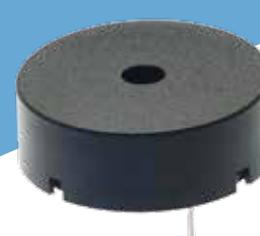
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø16.8 X 8.2 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

PT2207F Series

Housing

Noryl

Color

Black

Terminal

Pin

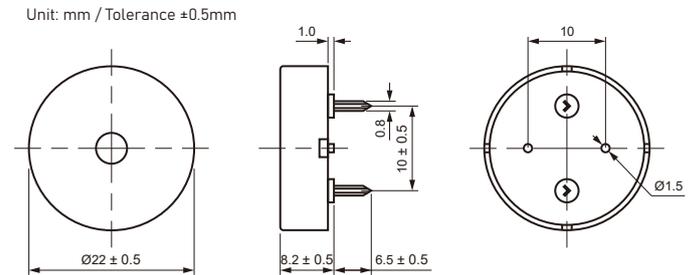
PT2207F-40A13-P10

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	13000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 88 / 10cm
Operating Temperature	[°C]	-20 ~ +80
Weight	[g]	2.5

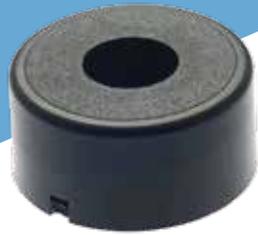
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø22 X 8.2 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2212F Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

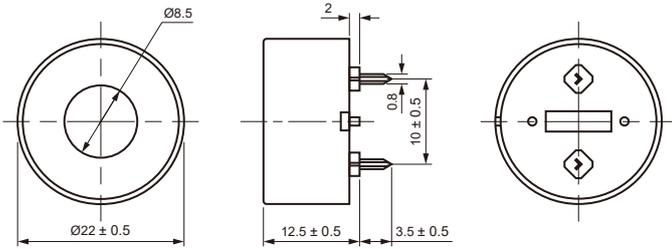
PT2212F-40A18-P10

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	18000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø22 X 12.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2310 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

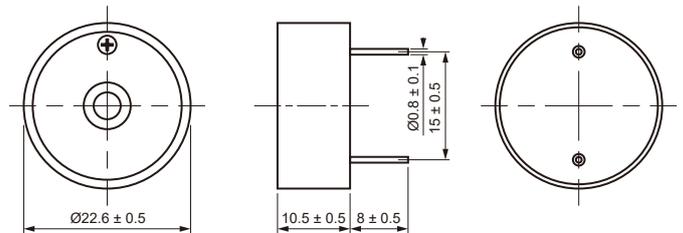
PT2310-38A28-P15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	28000
Resonant Frequency	[Hz]	3800
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	3.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø22.6 X 10.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2316 Series



- Housing**
PBT
- Color**
Black
- Terminal**
Pin

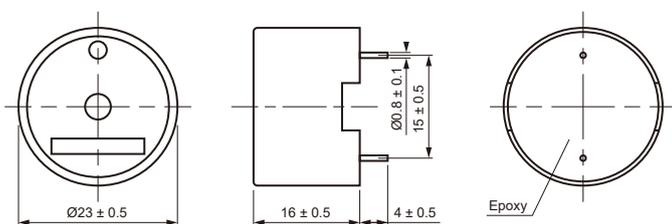
PT2316-27E25-P15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	2700
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	3.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø23 X 16 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2475 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

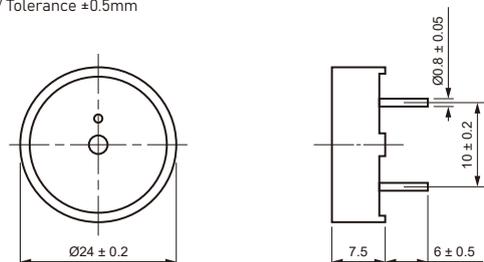
PT2475-40A17-P10

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	17000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø24 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT2416 Series

Housing

PBT

Color

Black

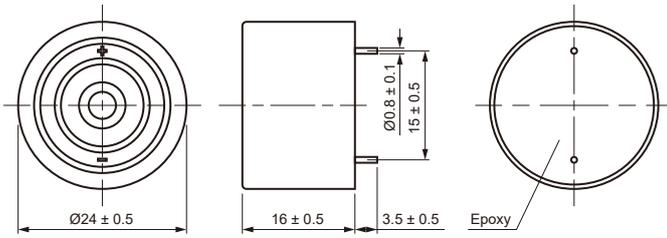
Terminal

Pin

PT2416-30E28-P15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	28000
Resonant Frequency	[Hz]	3000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	5.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : $\varnothing 24 \times 16$ mm]Unit: mm / Tolerance ± 0.5 mm

External Drive Piezo Transducer

PT3007 Series

Housing

ABS

Color

Black

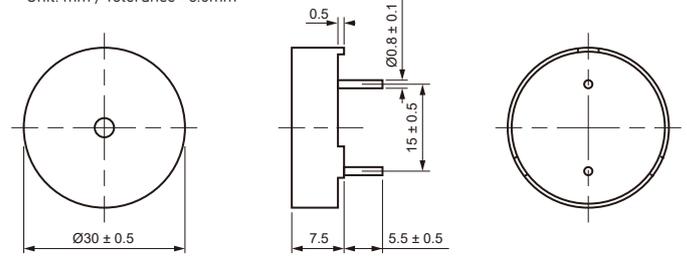
Terminal

Pin

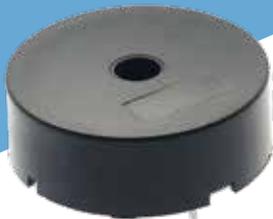
PT3007-36A25-P15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	3600
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : $\varnothing 30 \times 7.5$ mm]Unit: mm / Tolerance ± 0.5 mm

External Drive Piezo Transducer

PT3010 Series

Housing

ABS

Color

Black

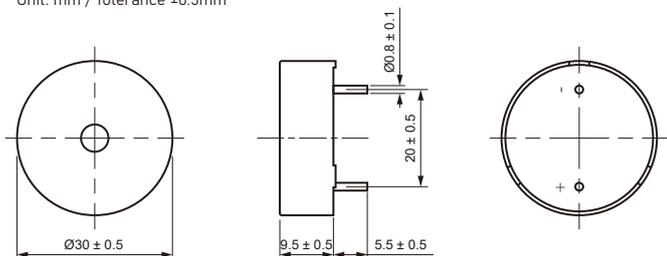
Terminal

Pin

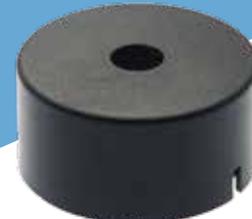
PT3010-36A25-P20

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	3600
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	5.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : $\varnothing 30 \times 9.5$ mm]Unit: mm / Tolerance ± 0.5 mm

External Drive Piezo Transducer

PT3015 Series

Housing

PBT

Color

Black

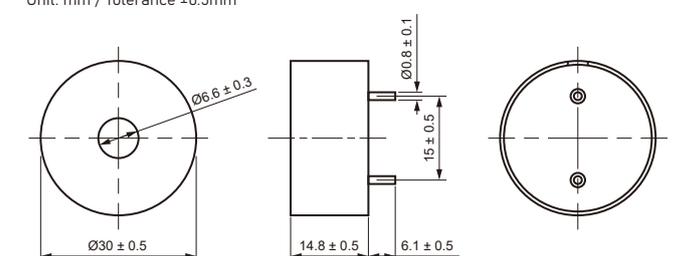
Terminal

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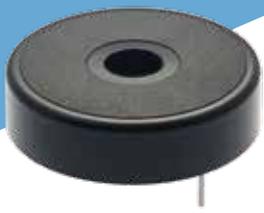
PT3015-33A30-P15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	30000
Resonant Frequency	[Hz]	3300
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	5.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : $\varnothing 30 \times 14.8$ mm]Unit: mm / Tolerance ± 0.5 mm

External Drive Piezo Transducer
PT3509 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

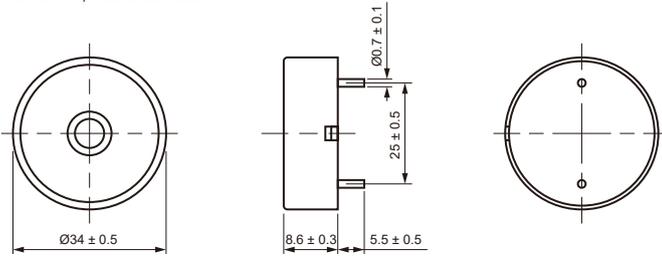
PT3509-10A55-P25

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	14
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	55000
Resonant Frequency	[Hz]	1000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4.8

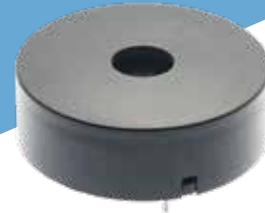
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø34 X 8.6 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT4414 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

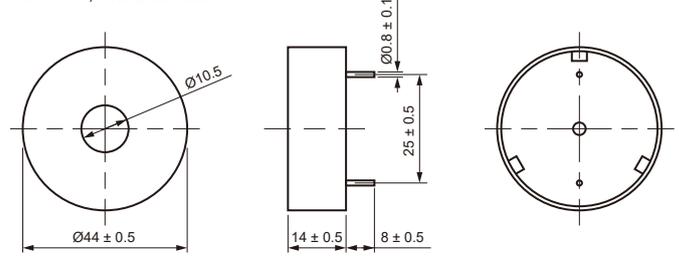
PT4414-23A90-P25

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	90000
Resonant Frequency	[Hz]	2300
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	9.4

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø44 X 14 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT1025 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

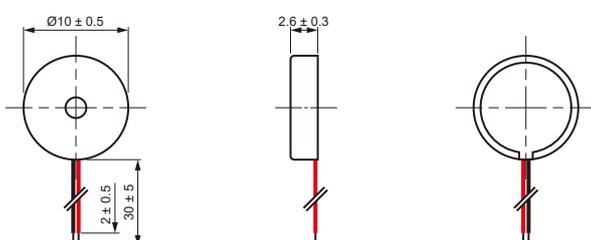
PT1025-40A6-W

Operating Voltage	[Vp-p]	1 ~ 20
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	6000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø10 X 2.6 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
PT1325 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

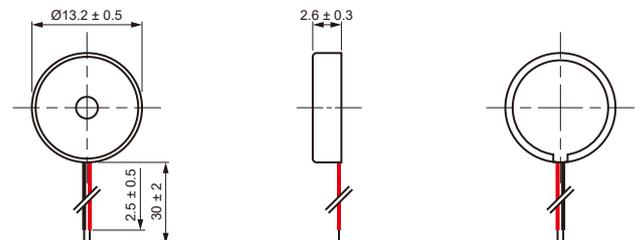
PT1325-70A11-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	11000
Resonant Frequency	[Hz]	7000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.5

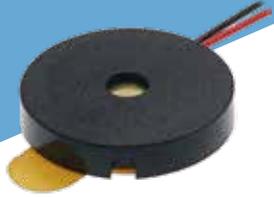
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø13.2 X 2.6 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

PT1425 Series

Housing

ABS

Color

Black

Terminal

Wire

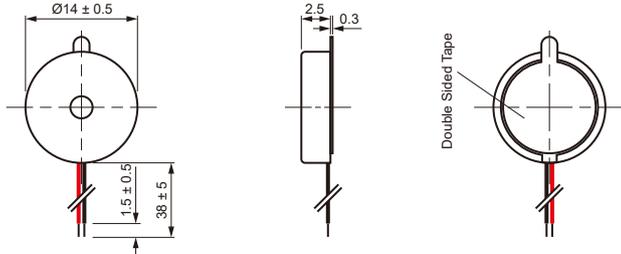
PT1425-52A10-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	10000
Resonant Frequency	[Hz]	5200
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø14 X 2.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT1733 Series

Housing

ABS

Color

Black

Terminal

Wire

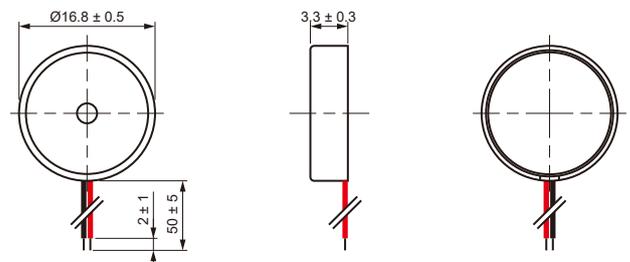
PT1733-45A15-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4500
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.85

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø16.8 X 3.3 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT2245 Series

Housing

ABS

Color

Black

Terminal

Wire

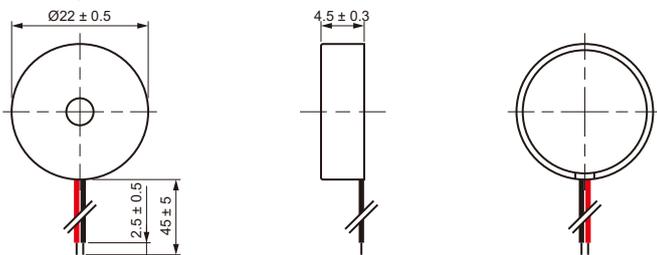
PT2245-50A15-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 4
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	5000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	1.9

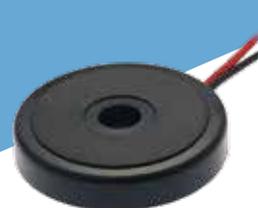
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø22 X 4.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT3005 Series

Housing

ABS

Color

Black

Terminal

Wire

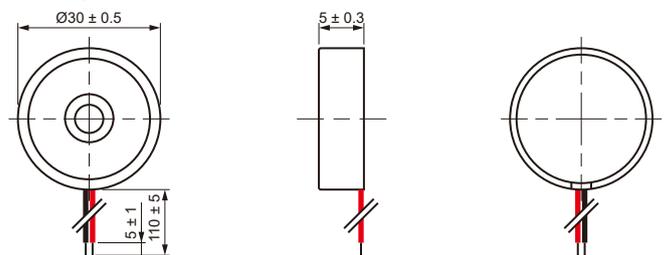
PT3005-36A25-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	3600
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø30 X 5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2305E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

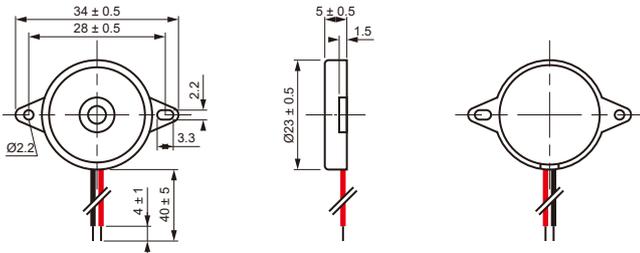
PT2305E-40A15-W

Operating Voltage	[Vp-p]	1~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	2.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø23 X 5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT2455E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

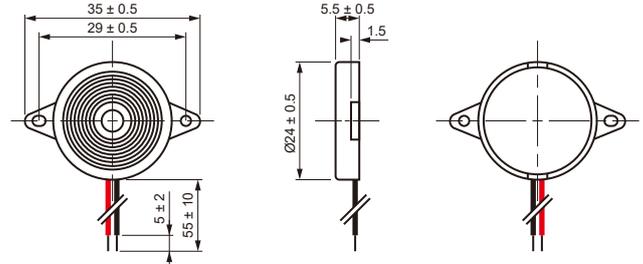
PT2455E-40A15-W

Operating Voltage	[Vp-p]	1~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	2.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø24 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT3055E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

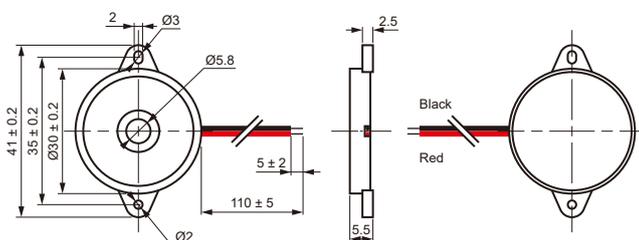
PT3055E-40A25-W

Operating Voltage	[Vp-p]	1~ 30
Rated Voltage	[Vp-p]	10
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	3.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø30 X 5.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
PT3509E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

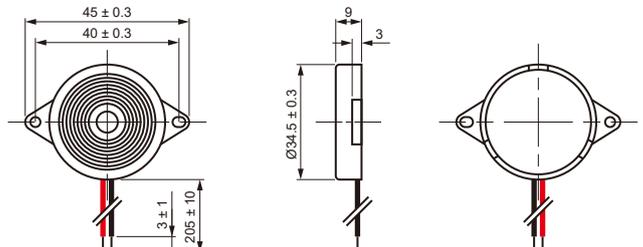
PT3509E-10A50-W

Operating Voltage	[Vp-p]	1~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 9
Capacitance	[pF]	50000
Resonant Frequency	[Hz]	1000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø34.5 X 9 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT4216E Series

Housing

ABS

Color

Black

Terminal

Wire

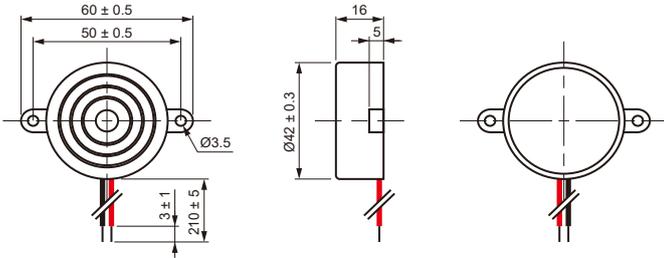
PT4216E-28A25-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 4
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	2800
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	11

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø42 X 16 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

PT4414E Series

Housing

ABS

Color

Black

Terminal

Wire

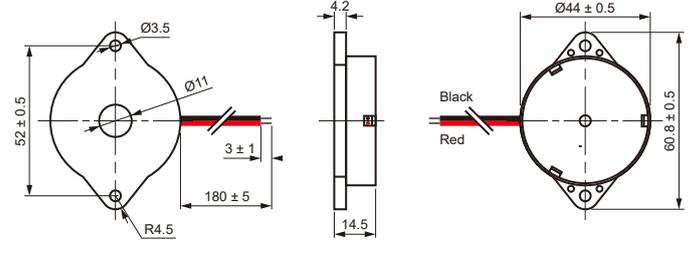
PT4414E-25A80-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	80000
Resonant Frequency	[Hz]	2500
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	11

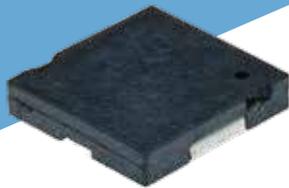
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø44 X 14.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer

SPT9020T Series

Housing

LCP

Color

Black

Terminal

SMT

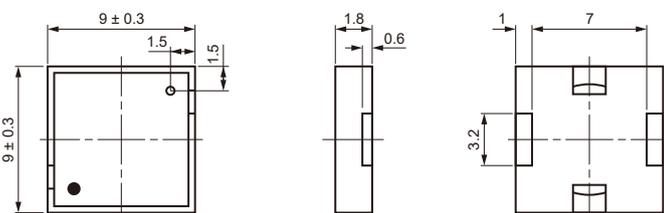
SPT9020T-40A12

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	3
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 65 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.3

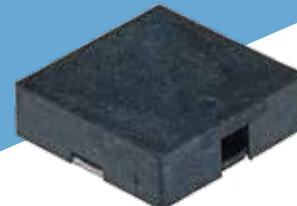
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 9 X 9 X 1.8 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

SPT1030 Series

Housing

LCP

Color

Black

Terminal

SMT

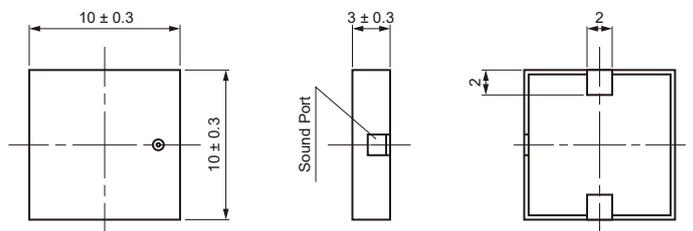
SPT1030-52A12

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	5200
※ Sound Pressure Level	[dBA]	Min. 70 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 10 X 10 X 3 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1030R Series



- Housing**
PPA
- Color**
Black
- Terminal**
SMT

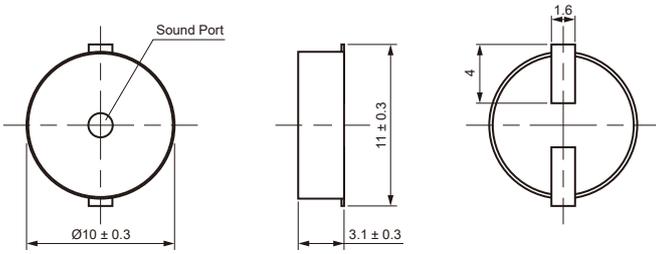
SPT1030R-52A11

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	11000
Resonant Frequency	[Hz]	5200
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.3

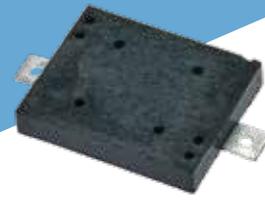
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø10 X 3.1 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT119017T Series



- Housing**
PPA
- Color**
Black
- Terminal**
SMT

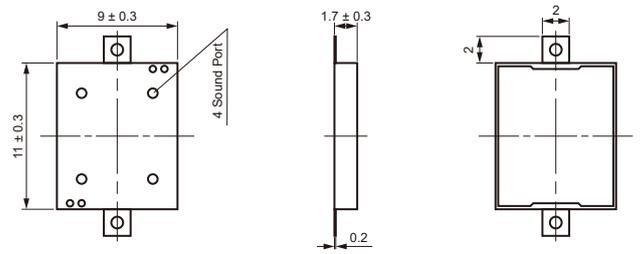
SPT119017T-41A12

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4100
※ Sound Pressure Level	[dBA]	Min. 70 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.2

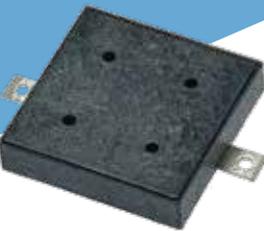
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 11 X 9 X 1.7 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1225T Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

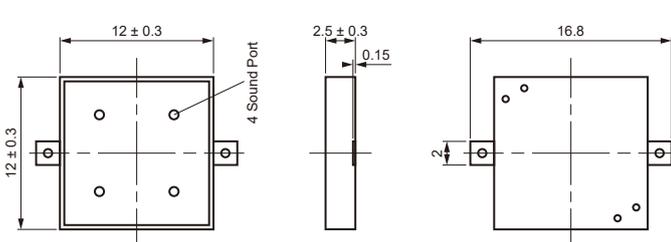
SPT1225T-41A16

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	16000
Resonant Frequency	[Hz]	4100
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.5

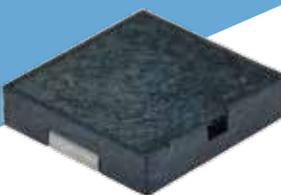
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12 X 12 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1230A Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

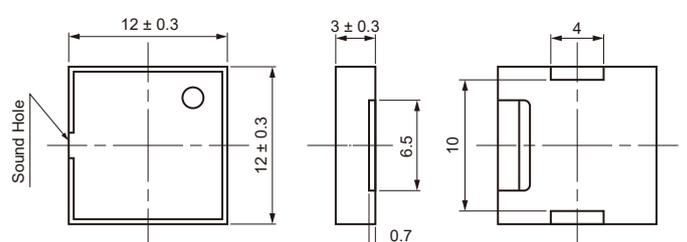
SPT1230A-40A16

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	3
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	16000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.4

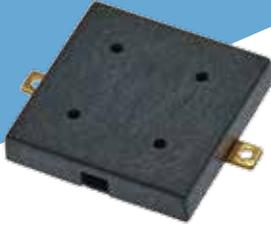
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 12 X 12 X 3 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

SPT1325 Series

Housing

PPA

Color

Black

Terminal

SMT

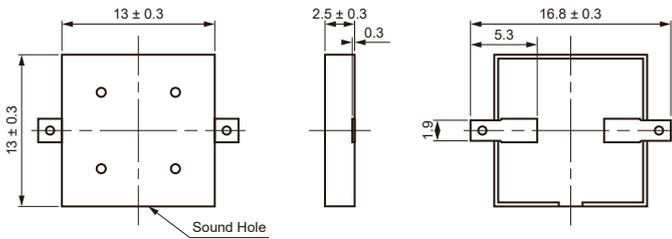
SPT1325-41A16

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 8
Capacitance	[pF]	16000
Resonant Frequency	[Hz]	4100
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	0.5

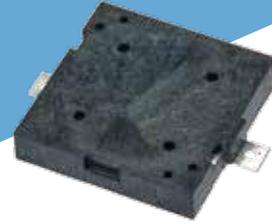
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 13 X 13 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

SPT1325T Series

Housing

LCP

Color

Black

Terminal

SMT

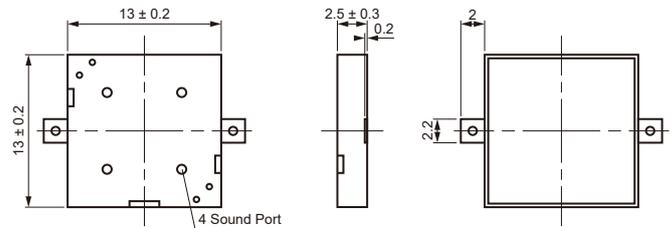
SPT1325T-40A15

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-30 ~ +85
Weight	[g]	0.5

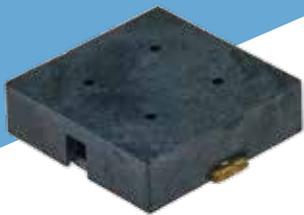
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 13 X 13 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

SPT1440 Series

Housing

LCP

Color

Black

Terminal

SMT

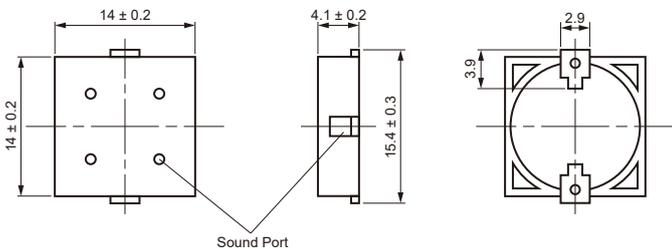
SPT1440-40A12

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-30 ~ +85
Weight	[g]	0.9

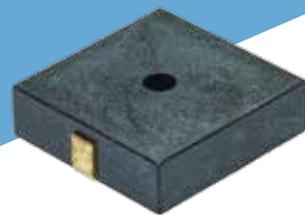
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14 X 14 X 4.1 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer

SPT1440T Series

Housing

LCP

Color

Black

Terminal

SMT

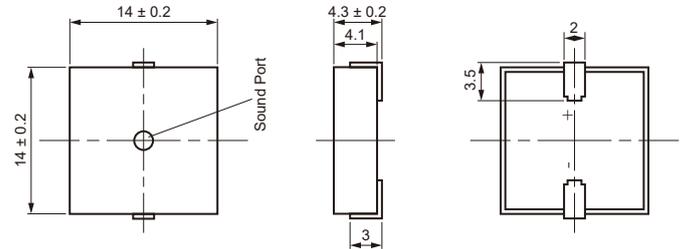
SPT1440T-40A12

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	12000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	1

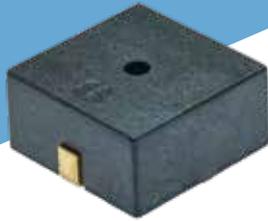
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14 X 14 X 4.3 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1470T Series



- Housing**
LCP
- Color**
Black
- Terminal**
SMT

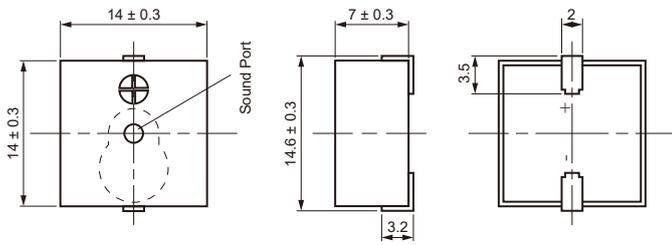
SPT1470T-40A16

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	16000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	1.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14 X 14 X 7 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1580T Series



- Housing**
PPS
- Color**
Black
- Terminal**
SMT

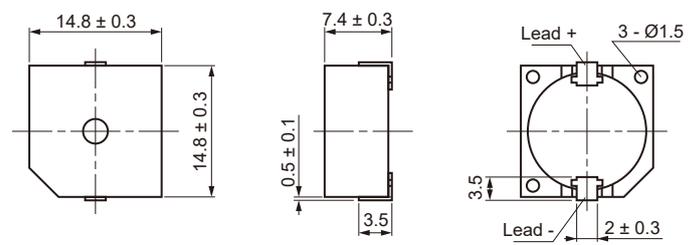
SPT1580T-36A15

Operating Voltage	[Vp-p]	3 ~ 20
Rated Voltage	[Vp-p]	7
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	3650
※ Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +85
Weight	[g]	2

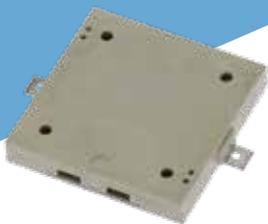
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 14.8 X 14.8 X 7.4 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1625 Series



- Housing**
LCP
- Color**
White
- Terminal**
SMT

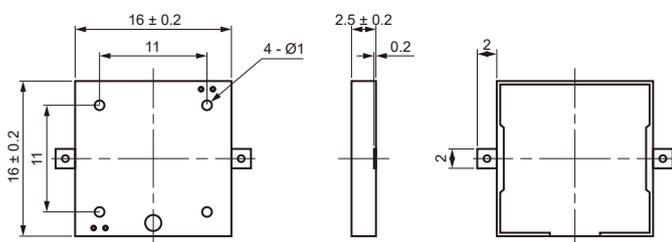
SPT1625-40A16

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 2
Capacitance	[pF]	16000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 75 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 16 X 16 X 2.5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1750R Series



- Housing**
PPS
- Color**
Black
- Terminal**
SMT

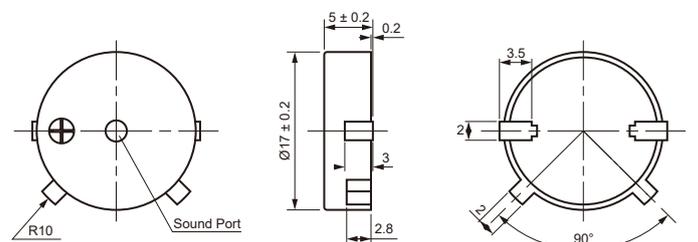
SPT1750R-40A15

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-40 ~ +105
Weight	[g]	1.3

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø17 X 5 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1780T Series



Housing
PPS
Color
Grey
Terminal
SMT

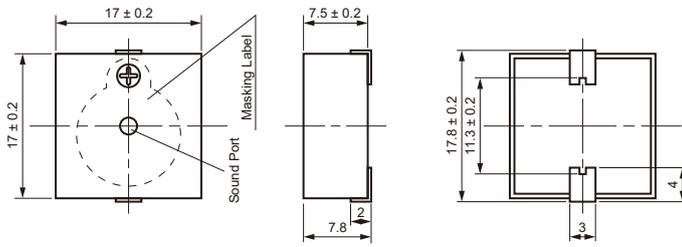
SPT1780T-50A15

Operating Voltage	[Vp-p]	1 ~ 20
Rated Voltage	[Vp-p]	10
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	15000
Resonant Frequency	[Hz]	5000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	2.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 17 X 17 X 7.8 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT1808T Series



Housing
PPS
Color
Black
Terminal
SMT

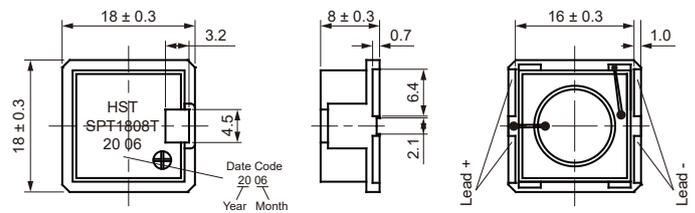
SPT1808T-20A20

Operating Voltage	[Vp-p]	1 ~ 18
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	20000
Resonant Frequency	[Hz]	2000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-40 ~ +105
Weight	[g]	2

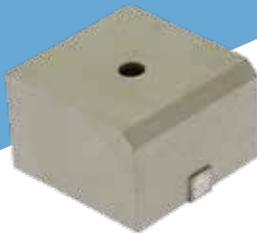
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 18 X 18 X 8 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
SPT1812T Series



Housing
LCP
Color
White
Terminal
SMT

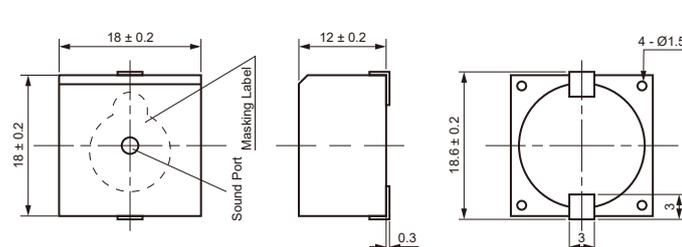
SPT1812T-30A20

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	10
※ Rated Current	[mA]	Max. 7
Capacitance	[pF]	20000
Resonant Frequency	[Hz]	3000
※ Sound Pressure Level	[dBA]	Min. 86 / 10cm
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	4

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 18 X 18 X 12 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT2270R Series



Housing
PPS
Color
Black
Terminal
SMT

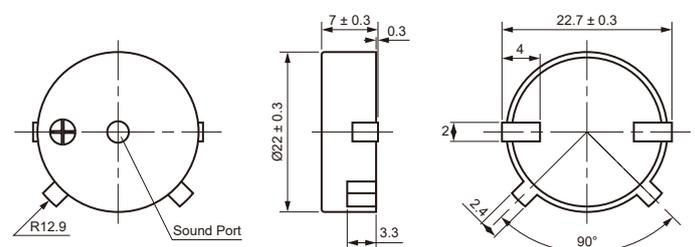
SPT2270R-40A19

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	19000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	2.9

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø22 X 7 mm]

Unit: mm / Tolerance ±0.3mm



External Drive Piezo Transducer
SPT2311R Series



- Housing**
PPS
- Color**
Black
- Terminal**
SMT

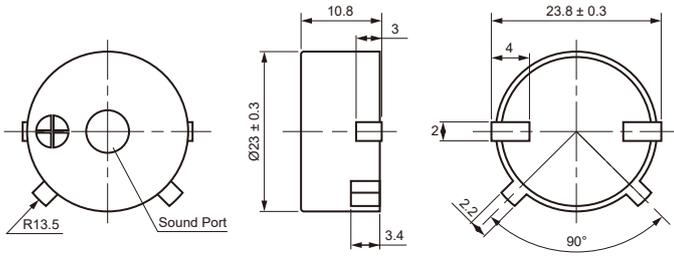
SPT2311R-40A19

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	19000
Resonant Frequency	[Hz]	4000
※ Sound Pressure Level	[dBA]	Min. 95 / 10cm
Operating Temperature	[°C]	-40 ~ +85
Weight	[g]	3.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø23 X 10.8 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT272207 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Plate

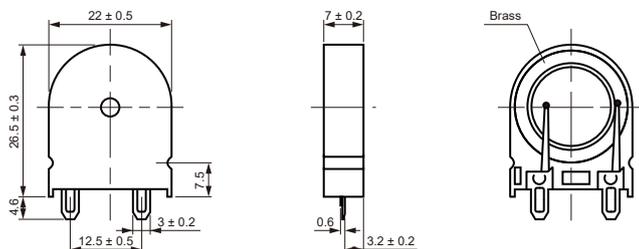
XPT272207-20A32-T

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	32000
Resonant Frequency	[Hz]	2000
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	2.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : 26.5 X 22 X 7 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT3017 Series



- Housing**
ABS
- Color**
White
- Terminal**
Wire

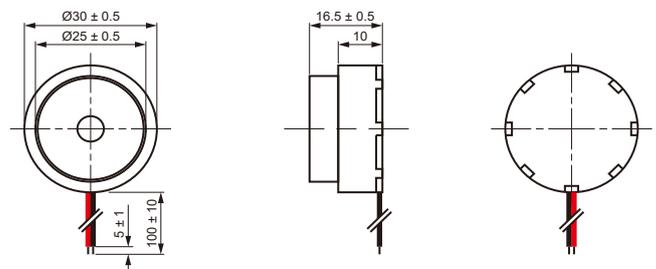
XPT3017-32A17-W

Operating Voltage	[Vp-p]	6 ~ 18
Rated Voltage	[Vp-p]	9
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	17000
Resonant Frequency	[Hz]	3200
※ Sound Pressure Level	[dBA]	Min. 90 / 30cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	8

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø30 X 16.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT2211 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Plate

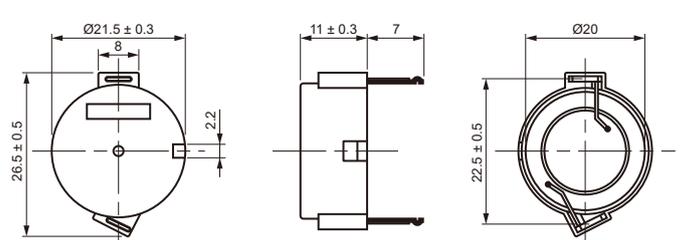
XPT2211-25A28-T

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	28000
Resonant Frequency	[Hz]	2500
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	0.6

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø21.5 X 11 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer XPT2104 Series



Housing
PPO
Color
Black
Terminal
Wire

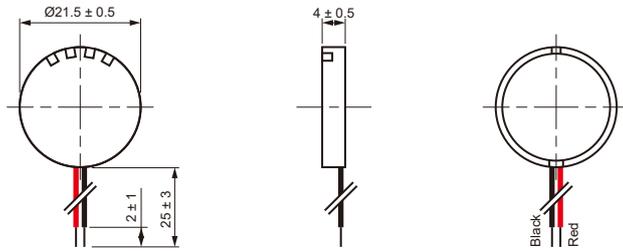
XPT2104-41A25-W

Operating Voltage	[Vp-p]	1 ~ 25
Rated Voltage	[Vp-p]	3
※ Rated Current	[mA]	Max. 3
Capacitance	[pF]	25000
Resonant Frequency	[Hz]	4100
※ Sound Pressure Level	[dBA]	Min. 92 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	1.3

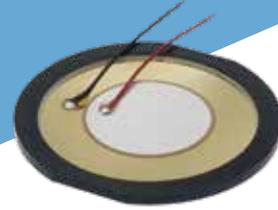
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø21.5 X 4 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer XPT50R Series



Housing
N/A
Color
N/A
Terminal
Wire

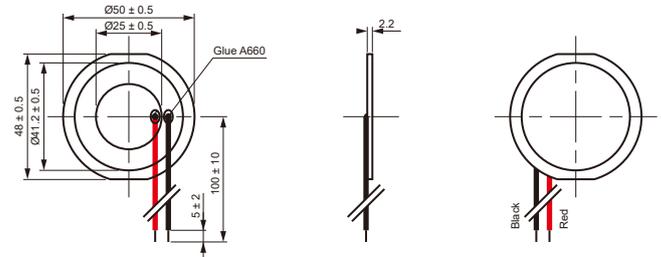
XPT50R-12A65-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	65000
Resonant Frequency	[Hz]	1200
※ Sound Pressure Level	[dBA]	Min. 70 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	3.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø50 X 2.2 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer XPT27AL Series



Housing
Aluminum
Color
Silver
Terminal
Connector

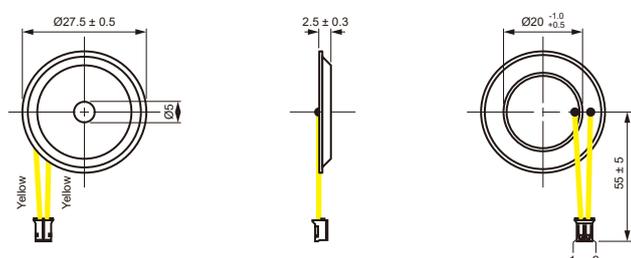
XPT27AL-X236

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	5
※ Rated Current	[mA]	Max. 5
Capacitance	[pF]	33000
Resonant Frequency	[Hz]	4200
※ Sound Pressure Level	[dBA]	Min. 80 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	2.1

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø27.5 X 2.5 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer XPT48HPVC Series



Housing
N/A
Color
N/A
Terminal
Wire

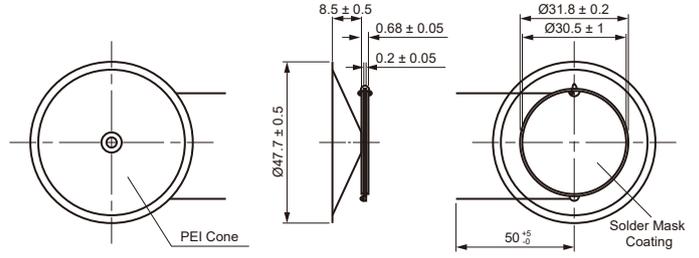
XPT48HPVC-32A140-W

Operating Voltage	[Vp-p]	1 ~ 30
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	140000
Resonant Frequency	[Hz]	3200
※ Sound Pressure Level	[dBA]	Min. 105 / 10cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4.2

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø47.7 X 9.2 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT5426 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Wire

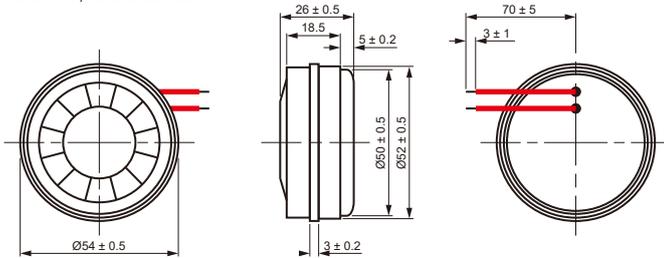
XPT5426-28A30-W

Operating Voltage	[Vp-p]	1 ~ 100
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 10
Capacitance	[pF]	30000
Resonant Frequency	[Hz]	2800
※ Sound Pressure Level	[dBA]	Min. 102 / 100cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	27

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø54 X 26 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT4514E Series



- Housing**
Nylon (PA 46)
- Color**
Black
- Terminal**
Plate

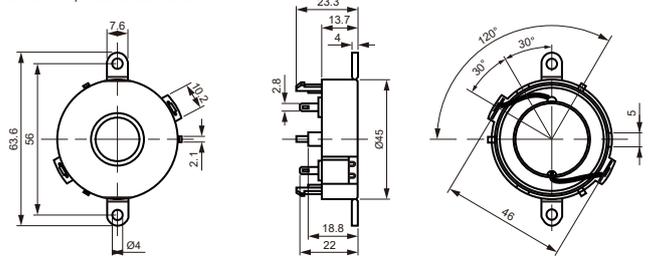
XPT4514E-30A140-T

Operating Voltage	[Vp-p]	3 ~ 60
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 25
Capacitance	[pF]	140000
Resonant Frequency	[Hz]	3000
※ Sound Pressure Level	[dBA]	Min. 100 / 30cm
Operating Temperature	[°C]	-40 ~ +105
Weight	[g]	13

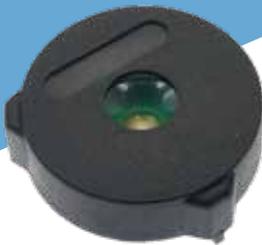
※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø45 X 13.7 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT5215A Series



- Housing**
Nylon (PA 6)
- Color**
Black
- Terminal**
Plate

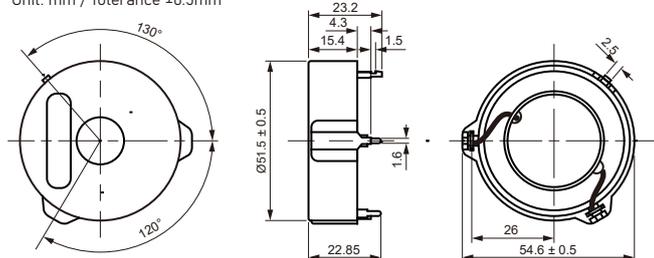
XPT5215A-30A120-T

Operating Voltage	[Vp-p]	3 ~ 60
Rated Voltage	[Vp-p]	18
※ Rated Current	[mA]	Max. 25
Capacitance	[pF]	120000
Resonant Frequency	[Hz]	1000
※ Sound Pressure Level	[dBA]	Min. 105 / 10cm
Operating Temperature	[°C]	-40 ~ +105
Weight	[g]	14

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø51.5 X 15.4 mm]

Unit: mm / Tolerance ±0.5mm



External Drive Piezo Transducer
XPT5018E Series



- Housing**
ABS
- Color**
Black
- Terminal**
Connector

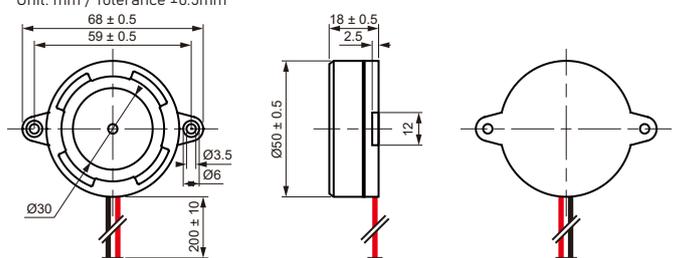
XPT5018E-X366

Operating Voltage	[Vp-p]	5 ~ 15
Rated Voltage	[Vp-p]	12
※ Rated Current	[mA]	Max. 50
Capacitance	[pF]	68000
Resonant Frequency	[Hz]	3000
※ Sound Pressure Level	[dBA]	Min. 100 / 100cm
Operating Temperature	[°C]	-20 ~ +80
Weight	[g]	21.5

※ value applying rated voltage [resonant frequency, square wave [duty 50%]]

Dimensions [size : Ø50 X 18 mm]

Unit: mm / Tolerance ±0.5mm



06 Self Drive Piezo Transducer

	Size (mm)	Height (mm)	Rated Voltage (Vdc)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Page No.
XPTF3019E-31W	Ø30.3	19	9	3100	85 / 30cm	55
XPTF3010-27T	Ø29.5	10	12	2700	82 / 10cm	55
XPTF2309-35P	Ø22.5	9.2	12	3500	85 / 10cm	55
XPTF2507-63P	Ø24.7	7	12	6300	90 / 10cm	55

Self Drive Piezo Transducer

XPTF3019E Series



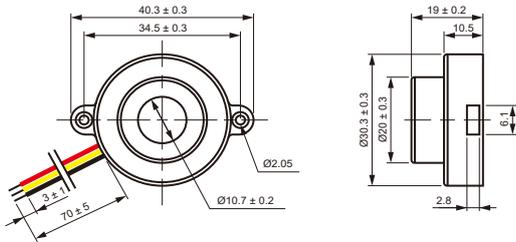
- Housing**
PC
- Color**
Black
- Terminal**
Wire

XPTF3019E-31W

Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	9
Rated Current	[mA]	Max. 15
Resonant Frequency	[Hz]	3100
Sound Pressure Level	[dBA]	Min. 85 / 30cm
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	7

Dimensions [size : Ø30.3 X 19 mm]

Unit: mm / Tolerance ±0.5mm



Self Drive Piezo Transducer

XPTF3010 Series



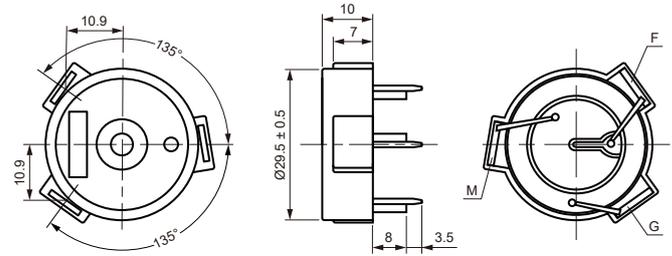
- Housing**
Nylon
- Color**
Black
- Terminal**
Plate

XPTF3010-27T

Operating Voltage	[Vdc]	3 ~ 24
Rated Voltage	[Vdc]	12
Rated Current	[mA]	Max. 7
Resonant Frequency	[Hz]	2700
Sound Pressure Level	[dBA]	Min. 82 / 10cm
Operating Temperature	[°C]	-20 ~ +80
Weight	[g]	4

Dimensions [size : Ø29.5 X 10 mm]

Unit: mm / Tolerance ±0.5mm



Self Drive Piezo Transducer

XPTF2309 Series



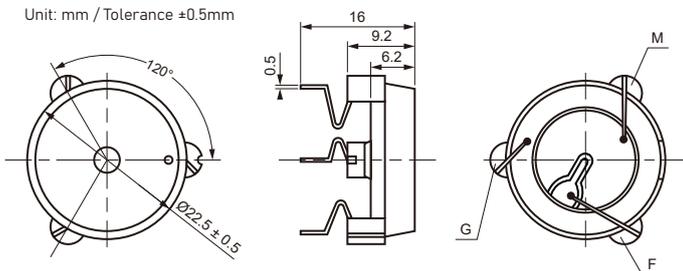
- Housing**
ABS
- Color**
Grey
- Terminal**
Pin

XPTF2309-35P

Operating Voltage	[Vdc]	3 ~ 20
Rated Voltage	[Vdc]	12
Rated Current	[mA]	Max. 15
Resonant Frequency	[Hz]	3500
Sound Pressure Level	[dBA]	Min. 85 / 10cm
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	2

Dimensions [size : Ø22.5 X 9.2 mm]

Unit: mm / Tolerance ±0.5mm



Self Drive Piezo Transducer

XPTF2507 Series



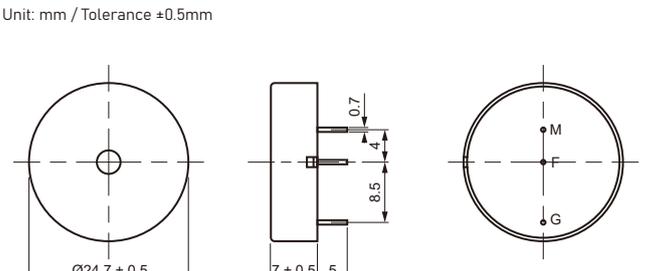
- Housing**
Nylon
- Color**
Black
- Terminal**
Pin

XPTF2507-63P

Operating Voltage	[Vdc]	3 ~ 24
Rated Voltage	[Vdc]	12
Rated Current	[mA]	Max. 18
Resonant Frequency	[Hz]	6300
Sound Pressure Level	[dBA]	Min. 90 / 10cm
Operating Temperature	[°C]	-20 ~ +80
Weight	[g]	3

Dimensions [size : Ø24.7 X 7 mm]

Unit: mm / Tolerance ±0.5mm



07 Mechanical Transducer

	Size (mm)	Height (mm)	Rated Voltage (Vac)	Resistance (ohm)	Frequency (Hz)	Min. Sound Pressure Level (dBA)	Page No.
MET2318-B110BT	22.8x23	17.8	110	4200	50 ~ 60	80 / 10cm	57
MET2318-B220BT	22.8x23	17.8	220	6500	50 ~ 60	80 / 10cm	57
MET2318-W110T	22.8x23	17.8	110	4200	50 ~ 60	80 / 10cm	57
MET2318-W220T	22.8x23	17.8	220	6500	50 ~ 60	80 / 10cm	57
MET2915-B12T	28.5x21	15	12	55	400	80 / 10cm	57
MET2915-B220T	28.5x21	15	220	6500	50 ~ 60	80 / 10cm	57
MET2121-B120T	30x20.7	21	120	3600	50 ~ 60	85 / 10cm	57

Mechanical Transducer

MET2318 Series



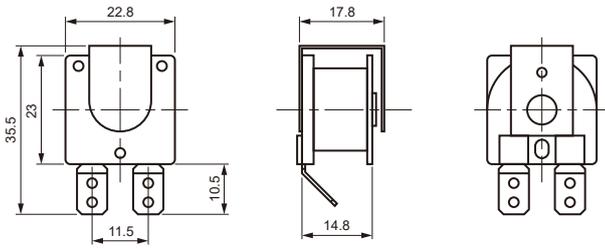
- Housing**
PBT
- Color**
White / Black
- Terminal**
Plate

	MET2318-B110BT	MET2318-B220BT
--	----------------	----------------

Operating Voltage [VAC]	70 ~ 150	160 ~ 260
Rated Voltage [VAC]	110	220
Rated Current [mA]	Max. 25	Max. 30
Resistance [ohm]	4200 ± 420	6500 ± 650
Resonant Frequency [Hz]	50 ~ 60	50 ~ 60
Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 80 / 10cm
Operating Temperature [°C]	-30 ~ +70	-30 ~ +70
Weight [g]	19	19

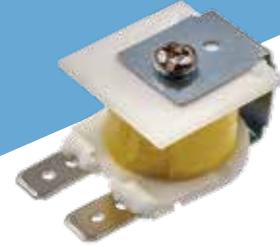
Dimensions [size : 22.8 X 23 X 17.8 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Transducer

MET2318 Series



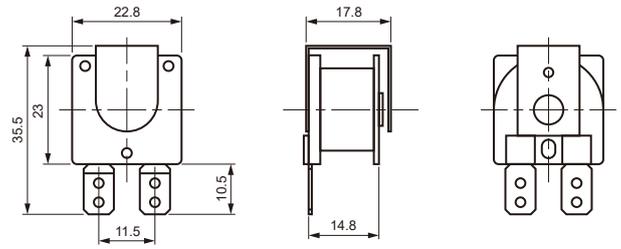
- Housing**
PBT
- Color**
White / Black
- Terminal**
Plate

	MET2318-W110T	MET2318-W220T
--	---------------	---------------

Operating Voltage [VAC]	70 ~ 150	160 ~ 260
Rated Voltage [VAC]	110	220
Rated Current [mA]	Max. 25	Max. 30
Resistance [ohm]	4200 ± 420	6500 ± 650
Resonant Frequency [Hz]	50 ~ 60	50 ~ 60
Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 80 / 10cm
Operating Temperature [°C]	-30 ~ +70	-30 ~ +70
Weight [g]	19	19

Dimensions [size : 22.8 X 23 X 17.8 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Transducer

MET2915 Series



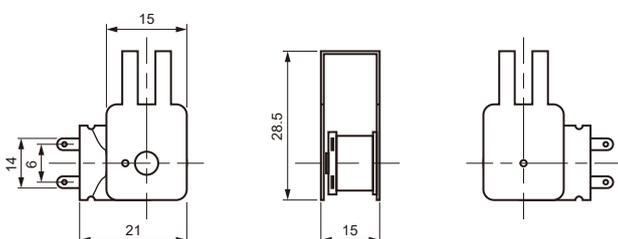
- Housing**
PBT
- Color**
Black
- Terminal**
Plate

	MET2915-B12T	MET2915-B220T
--	--------------	---------------

Operating Voltage [VAC]	11 ~ 14	160 ~ 260
Rated Voltage [VAC]	12	220
Rated Current [mA]	Max. 40	Max. 30
Resistance [ohm]	55 ± 5	6500 ± 650
Resonant Frequency [Hz]	400	50 ~ 60
Sound Pressure Level [dBA]	Min. 80 / 10cm	Min. 80 / 10cm
Operating Temperature [°C]	-20 ~ +60	-20 ~ +60
Weight [g]	10	10

Dimensions [size : 28.5 X 21 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Mechanical Transducer

MET2121 Series



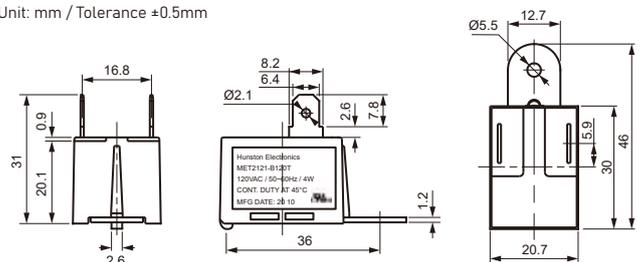
- Housing**
PBT
- Color**
Black
- Terminal**
Plate

	MET2121-B120T
--	---------------

Operating Voltage [VAC]	110 ~ 130
Rated Voltage [VAC]	120
Rated Current [mA]	Max. 50
Resistance [ohm]	3600 ± 36
Resonant Frequency [Hz]	50 ~ 60
Sound Pressure Level [dBA]	Min. 85 / 10cm
Operating Temperature [°C]	-10 ~ +45
Weight [g]	18

Dimensions [size : 30 X 20.7 X 21 mm]

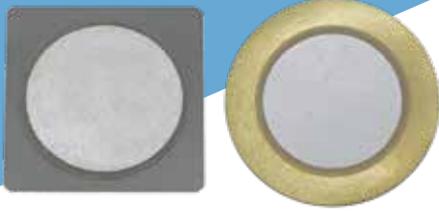
Unit: mm / Tolerance ±0.5mm



08 External Drive Piezo Element

External Drive Piezo Element
Series

PDN

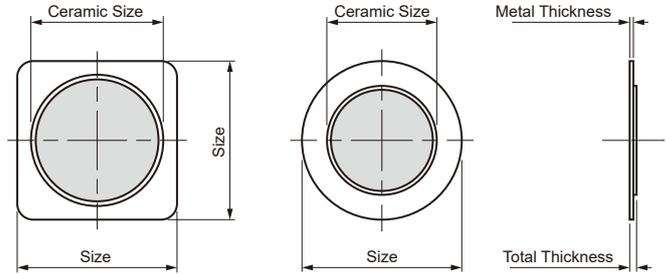


Metal
Nickel / Brass /
Stainless Steel

Terminal
Wire / None

Dimensions

Unit: mm

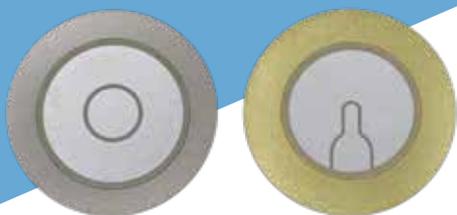


	Size (mm)	Total Thickness (mm)	Ceramic Size (mm)	Metal Thickness (mm)	Resonant Frequency (Hz)	Capacitance (pF)	Resonant Impedance (ohm)	Metal Material
PDN7676S-0750N	7.6x7.6	0.08	7.2	0.035	7500	15000	Max. 500	Nickel Alloy
PDN8484S-0600N	8.4x8.4	0.1	7.5	0.03	6000	12000	Max. 500	Nickel Alloy
PDN8484S-0680N	8.4x8.4	0.08	8	0.03	6800	10000	Max. 1000	Nickel Alloy
PDN1010S-0450N	10x10	0.1	9	0.035	4500	16000	Max. 800	Nickel Alloy
PDN1010S-0520N	10x10	0.12	9	0.05	5200	16000	Max. 400	Nickel Alloy
PDN1414S-0420N	14x14	0.2	12	0.1	4200	20000	Max. 800	Nickel Alloy
PDN089-0800B	Ø8.9	0.11	6	0.05	8000	11000	Max. 500	Brass
PDN090-0860B	Ø8.9	0.12	6	0.05	8600	11000	Max. 500	Brass
PDN110-0950B	Ø11	0.17	8	0.1	9500	14000	Max. 500	Brass
PDN120-0560B	Ø12	0.12	9	0.05	5600	15000	Max. 300	Brass
PDN150-0450B	Ø15	0.15	11	0.08	4500	25000	Max. 300	Brass
PDN150-0600B	Ø15	0.22	11	0.1	6000	15000	Max. 300	Brass
PDN180-0430B	Ø18	0.22	15	0.1	4300	25000	Max. 300	Brass
PDN200-0400B	Ø20	0.25	15	0.13	4000	25000	Max. 300	Brass
PDN200-0650B	Ø20	0.42	15	0.2	6500	12000	Max. 350	Brass
PDN210-0340B	Ø21	0.23	15	0.11	3400	25000	Max. 300	Brass
PDN270-0380B	Ø27	0.47	20	0.25	3800	24000	Max. 500	Brass
PDN270-0400B	Ø27	0.42	20	0.2	4000	25000	Max. 300	Brass
PDN270-0460S	Ø27	0.46	20	0.2	4600	18000	Max. 300	Stainless Steel
PDN310-0370B	Ø31	0.22	20	0.1	3700	48000	Max. 300	Brass
PDN310-0160S	Ø31	0.22	20	0.1	1600	45000	Max. 500	Stainless Steel
PDN350-0270B	Ø35	0.5	25	0.25	2700	35000	Max. 300	Brass
PDN350-0290B	Ø35	0.55	25	0.3	2900	35000	Max. 300	Brass
PDN410-0100B	Ø41	0.22	25	0.1	1000	65000	Max. 300	Brass
PDN410-0250B	Ø41	0.22	25	0.1	2500	70000	Max. 500	Brass
PDN500-0280B	Ø50	0.41	25	0.2	2800	35000	Max. 300	Brass
PDN500-0300B	Ø50	0.45	25	0.2	3000	30000	Max. 300	Brass

Self Drive Piezo Element 09

Self Drive Piezo Element
Series

PDF

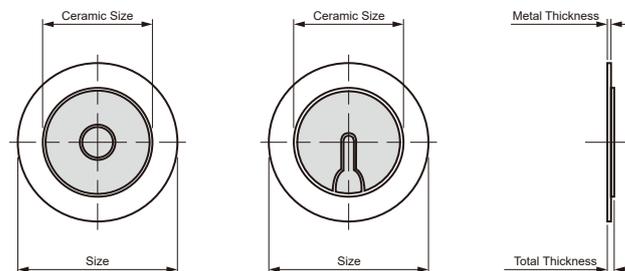


Metal
Nickel / Brass /
Stainless Steel

Terminal
Wire / None

Dimensions

Unit: mm



	Size (mm)	Total Thickness (mm)	Ceramic Size (mm)	Metal Thickness (mm)	Resonant Frequency (Hz)	Capacitance (pF)	Resonant Impedance (ohm)	Metal Material
PDF120-0580B	Ø12	0.12	9	0.05	5800	10000	Max. 300	Brass
PDF150-0420B	Ø15	0.13	12	0.05	4200	20000	Max. 500	Brass
PDF180-0360B	Ø18	0.2	12	0.09	3600	14000	Max. 300	Brass
PDF200-0450B	Ø20	0.28	15	0.15	4500	20000	Max. 300	Brass
PDF200-0580B	Ø20	0.35	15	0.15	5800	15000	Max. 300	Brass
PDF210-0380B	Ø21	0.25	15	0.15	3800	20000	Max. 300	Brass
PDF270-0300B	Ø27	0.37	20	0.2	3000	25000	Max. 500	Brass
PDF270-0270B	Ø27	0.28	20	0.1	2700	25000	Max. 500	Brass
PDF270-0400B	Ø27	0.42	20	0.2	4000	25000	Max. 300	Brass
PDF310-0260B	Ø31	0.42	20	0.2	2600	30000	Max. 300	Brass
PDF345-0320S	Ø34.5	0.55	25	0.26	3200	35000	Max. 250	Stainless Steel
PDF350-0290B	Ø35	0.55	25	0.3	2900	30000	Max. 300	Brass
PDF350-0380S	Ø35	0.65	25	0.4	3800	30000	Max. 300	Brass
PDF350-0310S	Ø35	0.55	25	0.3	3100	30000	Max. 300	Stainless Steel

10 Double Ceramic Piezo Element

Double Ceramic Piezo Element
Series

PDD

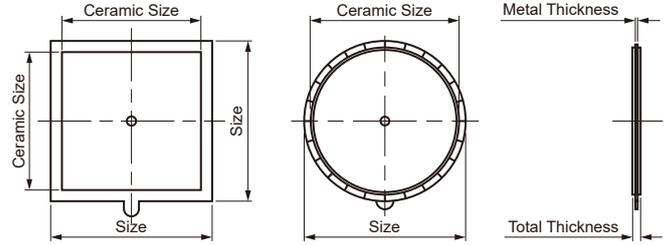


Metal
Brass

Terminal
Wire / None

Dimensions

Unit: mm



	Size (mm)	Total Thickness (mm)	Ceramic Size (mm)	Metal Thickness (mm)	Resonant Frequency (Hz)	Capacitance (pF)	Resonant Impedance (ohm)	Metal Material
PDD215-0400B	Ø21.5	0.35	20.5	0.1	4000	130000	Max. 100	Brass
PDD235R-0400B-W	Ø23.5	0.42	23	0.15	4000	220000	Max. 300	Brass
PDD235R-0400B	Ø23.5	0.35	23	0.1	4000	190000	Max. 100	Brass
PDD270-0250B	Ø27	0.32	25	0.1	2500	140000	Max. 100	Brass
PDD270-0280B	Ø27	0.32	25	0.1	2800	140000	Max. 200	Brass
PDD1313S-0950B	13x13	0.47	12.5x12.5	0.18	10000	60000	Max. 100	Brass

Electret Condenser Microphone 11

	Size (mm)	Height (mm)	Directivity	Sensitivity (dB)	Standard Voltage (V)	Output Impedance (ohm)	S/N Ratio (dBA)	Page No.
CMOB3015-2022-423D-1033	Ø3	1.5	Omnidirectional	-42 ± 3	2	2.2K	60	62
CMOB3015-3022-443S-1033	Ø3	1.5	Omnidirectional	-44 ± 3	3	2.2K	56	62
CMOB4013-2022-423D-10	Ø4	1.3	Omnidirectional	-42 ± 3	2	2.2K	58	63
CMOB4013-2022-443D-10	Ø4	1.3	Omnidirectional	-44 ± 3	2	2.2K	58	63
CMOB4015-2022-423D-1033	Ø4	1.5	Omnidirectional	-42 ± 3	2	2.2K	58	63
CMOB4015-2022-443W-1033H	Ø4	1.5	Omnidirectional	-44 ± 3	2	2.2K	60	63
CMOB4015-X401	Ø4	1.5	Omnidirectional	-38 ± 3	2	2.2K	60	63
CMNB4020-2022-403S-1033	Ø4	2	Noise Cancelling	-40 ± 3	2	2.2K	62	64
CMNB4020-2022-483S-1033	Ø4	2	Noise Cancelling	-48 ± 3	2	2.2K	60	64
CMUB4020-15068-383S-103322	Ø4	2	Unidirectional	-38 ± 3	1.5	680	62	64
CMUB4020-15068-423S-103322	Ø4	2	Unidirectional	-42 ± 3	1.5	680	62	64
CMUB4022-15068-523S-1033	Ø4	2.2	Unidirectional	-52 ± 3	1.5	680	60	64
CMOB4520-2022-423S-1033	Ø4.5	2.2	Omnidirectional	-42 ± 3	2	2.2K	60	64
CMOB4530-2022-383S-1033	Ø4.5	3	Omnidirectional	-38 ± 3	2	2.2K	60	65
CMOB4530-3022-423S-1033	Ø4.5	3	Omnidirectional	-42 ± 3	3	2.2K	60	65
CMO5822-2022-403P	Ø5.8	2.2	Omnidirectional	-40 ± 3	2	2.2K	60	65
CMOB6015-2022-423P-1033	Ø6	1.5	Omnidirectional	-42 ± 3	2	2.2K	60	65
CMOB6018-2022-403S-1033	Ø6	1.8	Omnidirectional	-40 ± 3	2	2.2K	60	65
CMOB6018-2022-423S-1033	Ø6	1.8	Omnidirectional	-42 ± 3	2	2.2K	60	65
CMO6022-X208	Ø6	2.2	Omnidirectional	-41 ± 3	2	2.2K	58	66
CMUB6022-15068-383S-1033	Ø6	2.2	Unidirectional	-38 ± 3	1.5	680	60	66
CMUB6022-15068-403S-1033	Ø6	2.2	Unidirectional	-40 ± 3	1.5	680	60	66
CMOB6027-2022-253P-1033	Ø6	2.7	Omnidirectional	-25 ± 3	2	2.2K	62	66
CMOB6027-2022-263P-33	Ø6	2.7	Omnidirectional	-26 ± 3	2	2.2K	60	66
CMO6027-2022-383D-1033	Ø6	2.7	Omnidirectional	-38 ± 3	2	2.2K	60	66
CMO6035-X402	Ø6	3.5	Omnidirectional	-42 ± 2	2	2.2K	60	67
CMN6035-2022-403P-1033	Ø6	3.5	Noise Cancelling	-40 ± 3	2	2.2K	60	67
CMN6035-2022-423P-1033	Ø6	3.5	Noise Cancelling	-42 ± 3	2	2.2K	60	67
CMO6050-2022-423S-1033	Ø6	5	Omnidirectional	-42 ± 3	2	2.2K	60	67
CMO6050-2022-382P-H	Ø6	5	Omnidirectional	-38 ± 2	2	2.2K	60	67
CMO9445-4510-432S-1033	Ø9.4	4.5	Omnidirectional	-43 ± 2	4.5	1K	60	68
CMO9465-2022-403P	Ø9.4	6.5	Omnidirectional	-40 ± 3	2	2.2K	56	68
CMO9465-4522-423P	Ø9.4	6.5	Omnidirectional	-42 ± 3	4.5	2.2K	56	68
CMUB9745-15068-383S-1033	Ø9.7	4.5	Unidirectional	-38 ± 3	1.5	680	58	68
CMUB9745-15068-403S-1033	Ø9.7	4.5	Unidirectional	-40 ± 3	1.5	680	58	68
CMO9750-2022-434S	Ø9.7	5	Omnidirectional	-43 ± 4	2	2.2K	60	68
CMO9750-4522-382S	Ø9.7	5	Omnidirectional	-38 ± 2	4.5	2.2K	60	68
CMO9765-1522-403S-1033	Ø9.7	6.5	Omnidirectional	-40 ± 3	1.5	2.2K	60	69
CMO9765-4510-442S-1033	Ø9.7	6.5	Omnidirectional	-44 ± 2	4.5	1K	60	69

11 Electret Condenser Microphone

	Size (mm)	Height (mm)	Directivity	Sensitivity (dB)	Standard Voltage (V)	Output Impedance (ohm)	S/N Ratio (dBA)	Page No.
CMO1055-3022-423P-1033	Ø10	5.5	Omnidirectional	-42 ± 3	3	2.2K	60	69
CMO1055-3030-423P-1033	Ø10	5.5	Omnidirectional	-42 ± 3	3	3K	60	69
CMUB1465-15068-423S-1033	Ø14	6.5	Unidirectional	-42 ± 3	1.5	680	58	69
CMUB1465-15068-473S-1033	Ø14	6.5	Unidirectional	-47 ± 3	1.5	680	58	69
CMUB1665-15068-392E-1	Ø16	6.5	Unidirectional	-39 ± 2	1.5	680	58	69
CMUB1665-15068-402E	Ø16	6.5	Unidirectional	-40 ± 2	1.5	680	58	69

Electret Condenser Microphone

CMOB3015 Series



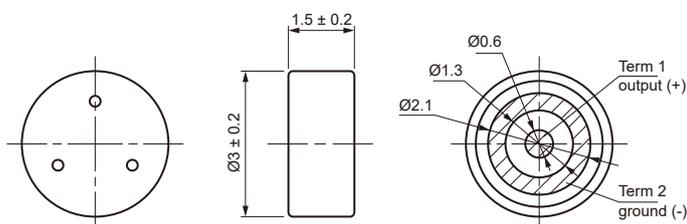
Housing
Aluminum
Terminal
SMT

CMOB3015-2022-423D-1033

Directivity		Omnidirectional
Sensitivity	[dB]	-42 ± 3
Operating Voltage	[Vdc]	1.5 ~ 6
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 16K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø3 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone

CMOB3015 Series



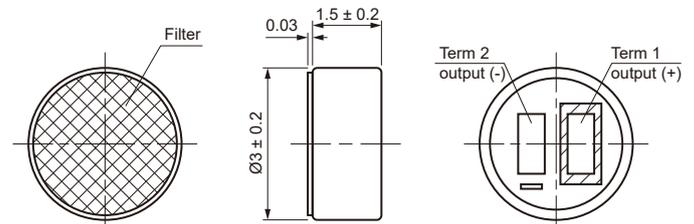
Housing
Aluminum
Terminal
Solder Pad

CMOB3015-3022-443S-1033

Directivity		Omnidirectional
Sensitivity	[dB]	-44 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	3
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 16K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 2.5V
S/N Ratio	[dBA]	Min. 56

Dimensions [size : Ø3 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB4013 Series

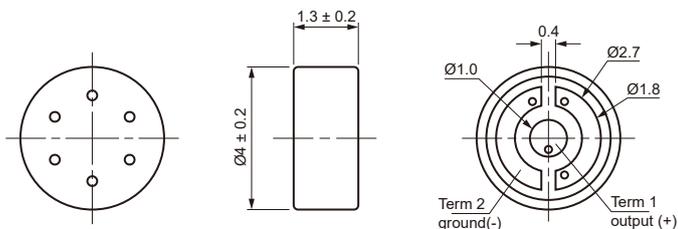


Housing
Aluminum
Terminal
SMT

	CMOB4013-2022-423D-10	CMOB4013-2022-443D-10
Directivity	Omnidirectional	Omnidirectional
Sensitivity [dB]	-42 ± 3	-44 ± 3
Operating Voltage [Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage [Vdc]	2	2
Output Impedance [ohm]	2.2K	2.2K
Frequency Range [Hz]	50 ~ 16K	50 ~ 16K
Current Consumption [µA]	Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 58	Min. 58

Dimensions [size : Ø4 X 1.3 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB4015 Series

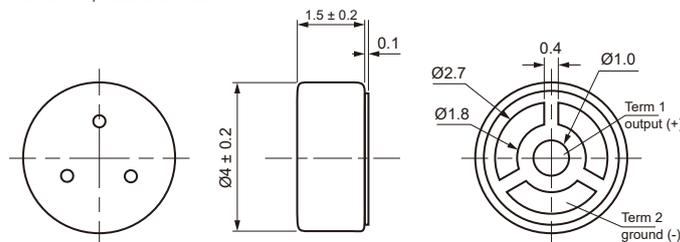


Housing
Aluminum
Terminal
SMT

	CMOB4015-2022-423D-1033
Directivity	Omnidirectional
Sensitivity [dB]	-42 ± 3
Operating Voltage [Vdc]	1 ~ 10
Standard Operating Voltage [Vdc]	2
Output Impedance [ohm]	2.2K
Frequency Range [Hz]	50 ~ 16K
Current Consumption [µA]	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 58

Dimensions [size : Ø4 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB4015 Series

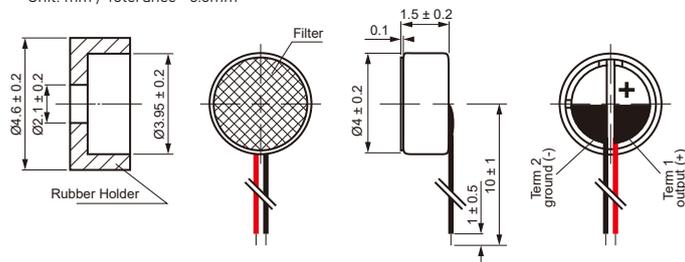


Housing
Aluminum
Terminal
Wire

	CMOB4015-2022-443W-1033H
Directivity	Omnidirectional
Sensitivity [dB]	-44 ± 3
Operating Voltage [Vdc]	1 ~ 10
Standard Operating Voltage [Vdc]	2
Output Impedance [ohm]	2.2K
Frequency Range [Hz]	50 ~ 16K
Current Consumption [µA]	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 60

Dimensions [size : Ø4 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB4015 Series

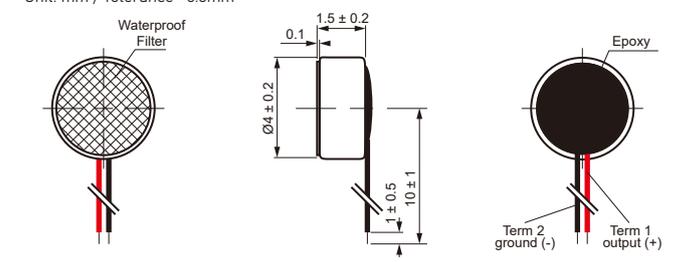


Housing
Aluminum
Terminal
Wire

	CMOB4015-X401
Directivity	Omnidirectional
Sensitivity [dB]	-38 ± 3
Operating Voltage [Vdc]	1 ~ 10
Standard Operating Voltage [Vdc]	2
Output Impedance [ohm]	2.2K
Frequency Range [Hz]	50 ~ 16K
Current Consumption [µA]	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 60

Dimensions [size : Ø4 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone

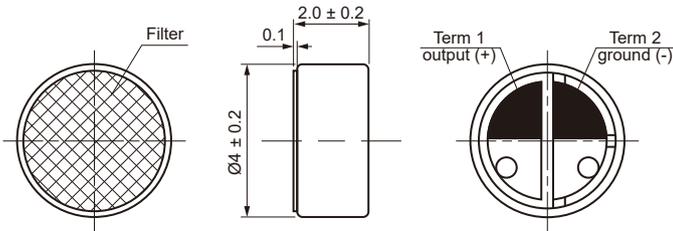
CMNB4020 Series

Housing
Aluminum
Terminal
Solder Pad

		CMNB4020-2022 -403S-1033	CMNB4020-2022 -483S-1033
Directivity		Noise Cancelling	Noise Cancelling
Sensitivity	[dB]	-40 ± 3	-48 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	2	2
Output Impedance	[ohm]	2.2K	2.2K
Frequency Range	[Hz]	50 ~ 16K	50 ~ 16K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V	Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 62	Min. 60

Dimensions [size : Ø4 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone

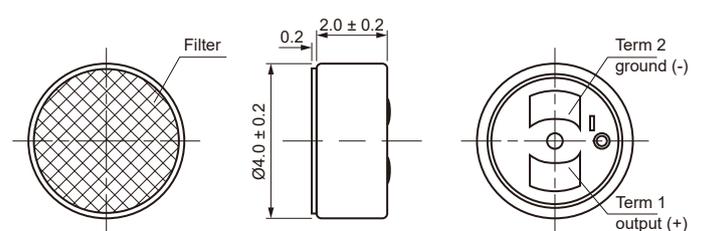
CMUB4020 Series

Housing
Aluminum
Terminal
Solder Pad

		CMUB4020-15068 -383S-103322	CMUB4020-15068 -423S-103322
Directivity		Unidirectional	Unidirectional
Sensitivity	[dB]	-38 ± 3	-42 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	1.5	1.5
Output Impedance	[ohm]	680	680
Frequency Range	[Hz]	100 ~ 10K	100 ~ 10K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 62	Min. 62

Dimensions [size : Ø4 X 2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone

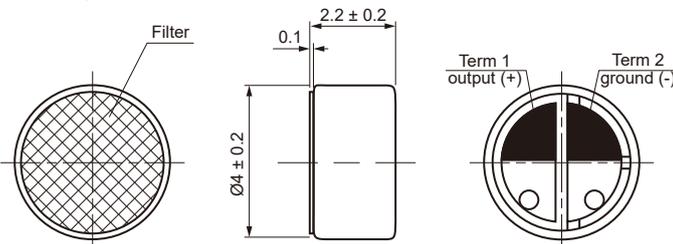
CMUB4022 Series

Housing
Aluminum
Terminal
Solder Pad

		CMUB4022-15068-523S-1033
Directivity		Unidirectional
Sensitivity	[dB]	-52 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	1.5
Output Impedance	[ohm]	680
Frequency Range	[Hz]	100 ~ 10K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø4 X 2.2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone

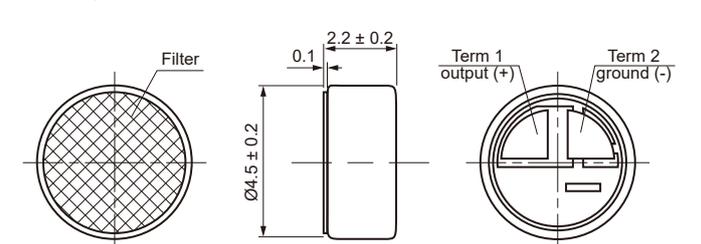
CMOB4520 Series

Housing
Aluminum
Terminal
Solder Pad

		CMOB4520-2022-423S-1033
Directivity		Omnidirectional
Sensitivity	[dB]	-42 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 16K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø4.5 X 2.2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB4530 Series

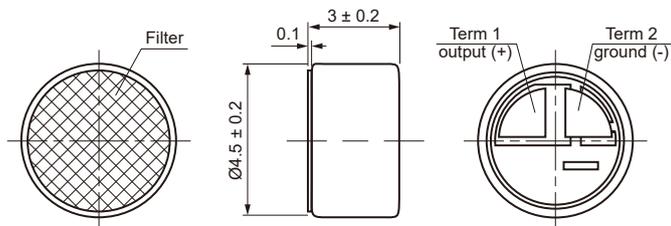


Housing
Aluminum
Terminal
Solder Pad

	CMOB4530-2022-383S-1033	CMOB4530-3022-423S-1033
Directivity	Omnidirectional	Omnidirectional
Sensitivity [dB]	-38 ± 3	-42 ± 3
Operating Voltage [Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage [Vdc]	2	3
Output Impedance [ohm]	2.2K	2.2K
Frequency Range [Hz]	50 ~ 16K	50 ~ 16K
Current Consumption [µA]	Max. 200	Max. 200
Sensitivity Reduction	Within -3 dB at 1.5V	Within -3 dB at 2.5V
S/N Ratio [dBA]	Min. 60	Min. 60

Dimensions [size : Ø4.5 X 3 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMO5822 Series

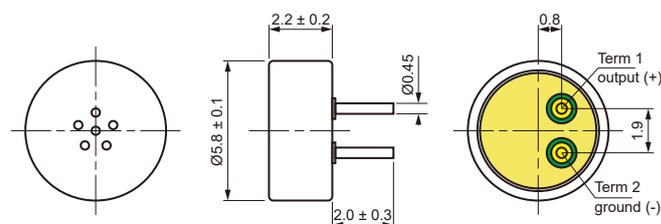


Housing
Aluminum
Terminal
Pin

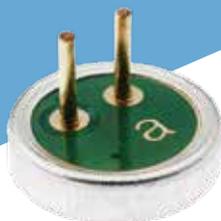
	CMO5822-2022-403P
Directivity	Omnidirectional
Sensitivity [dB]	-40 ± 3
Operating Voltage [Vdc]	1 ~ 10
Standard Operating Voltage [Vdc]	2
Output Impedance [ohm]	2.2K
Frequency Range [Hz]	50 ~ 18K
Current Consumption [µA]	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 60

Dimensions [size : Ø5.8 X 2.2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB6015 Series

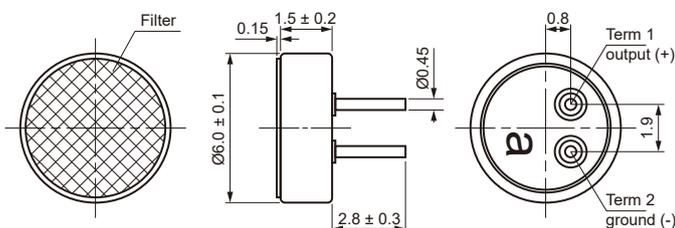


Housing
Aluminum
Terminal
Pin

	CMOB6015-2022-423P-1033
Directivity	Omnidirectional
Sensitivity [dB]	-42 ± 3
Operating Voltage [Vdc]	1 ~ 10
Standard Operating Voltage [Vdc]	2
Output Impedance [ohm]	2.2K
Frequency Range [Hz]	50 ~ 16K
Current Consumption [µA]	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 60

Dimensions [size : Ø6 X 1.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMOB6018 Series

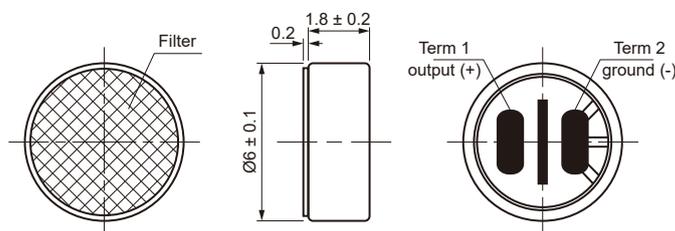


Housing
Aluminum
Terminal
Solder Pad

	CMOB6018-2022-403S-1033	CMOB6018-2022-423S-1033
Directivity	Omnidirectional	Omnidirectional
Sensitivity [dB]	-40 ± 3	-42 ± 3
Operating Voltage [Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage [Vdc]	2	2
Output Impedance [ohm]	2.2K	2.2K
Frequency Range [Hz]	50 ~ 16K	50 ~ 16K
Current Consumption [µA]	Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V	Within -3 dB at 1.5V
S/N Ratio [dBA]	Min. 60	Min. 60

Dimensions [size : Ø6 X 1.8 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CM06022 Series

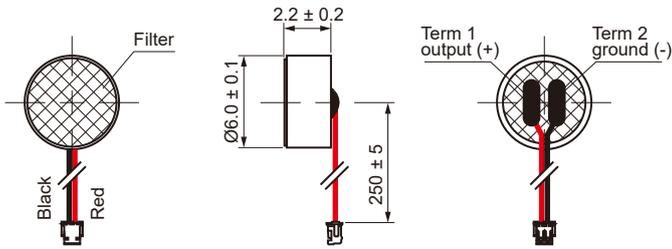


Housing
Aluminum
Terminal
Wire

		CM06022-X208
Directivity		Omnidirectional
Sensitivity	[dB]	-41 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 18K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 15V
S/N Ratio	[dBA]	Min. 58

Dimensions [size : Ø6 X 2.2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CMUB6022 Series

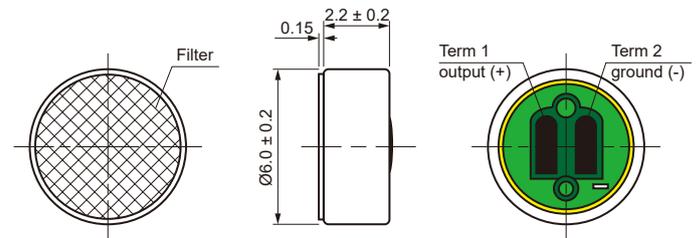


Housing
Aluminum
Terminal
Solder Pad

		CMUB6022-15068 -383S-1033	CMUB6022-15068 -403S-1033
Directivity		Unidirectional	Unidirectional
Sensitivity	[dB]	-38 ± 3	-40 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	1.5	1.5
Output Impedance	[ohm]	680	680
Frequency Range	[Hz]	100 ~ 18K	100 ~ 18K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 60	Min. 60

Dimensions [size : Ø6 X 2.2 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CMOB6027 Series

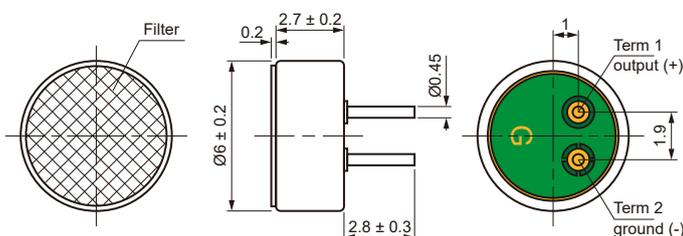


Housing
Aluminum
Terminal
Pin

		CMOB6027-2022 -253P-1033	CMOB6027-2022 -263P-33
Directivity		Omnidirectional	Omnidirectional
Sensitivity	[dB]	-25 ± 3	-26 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	2	2
Output Impedance	[ohm]	2.2K	2.2K
Frequency Range	[Hz]	50 ~ 16K	50 ~ 16K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V	Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 62	Min. 60

Dimensions [size : Ø6 X 2.7 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CM06027 Series

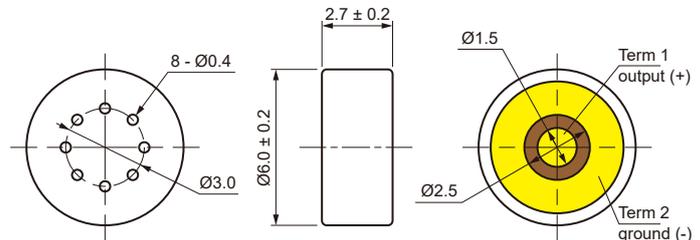


Housing
Aluminum
Terminal
SMT

		CM06027-2022-383D-1033
Directivity		Omnidirectional
Sensitivity	[dB]	-38 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 20K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø6 X 2.7 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CM06035 Series

IP67

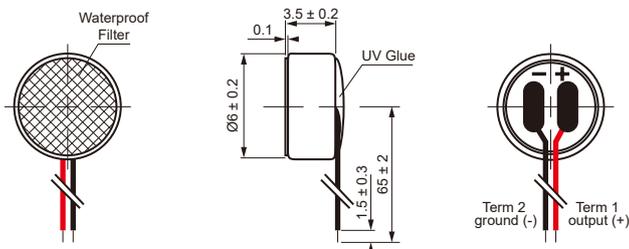


Housing
Aluminum
Terminal
Wire

		CM06035-X402
Directivity		Omnidirectional
Sensitivity	[dB]	-42 ± 2
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 16K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø6 X 3.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMN6035 Series

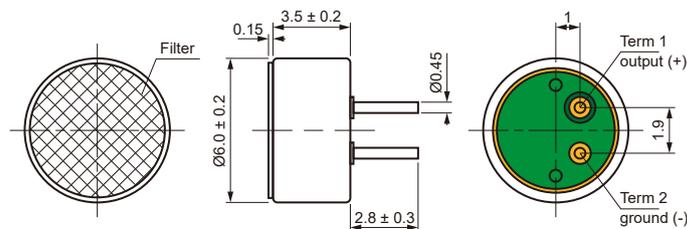


Housing
Aluminum
Terminal
Pin

		CMN6035-2022 -403P-1033	CMN6035-2022 -423P-1033
Directivity		Noise Cancelling	Noise Cancelling
Sensitivity	[dB]	-40 ± 3	-42 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	2	2
Output Impedance	[ohm]	2.2K	2.2K
Frequency Range	[Hz]	100 ~ 12K	100 ~ 12K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V	Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60	Min. 60

Dimensions [size : Ø6 X 3.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CM06050 Series

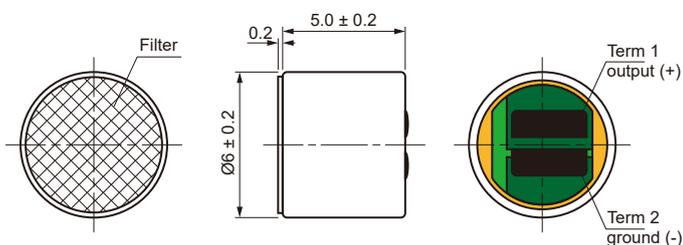


Housing
Aluminum
Terminal
Solder Pad

		CM06050-2022-423S-1033
Directivity		Omnidirectional
Sensitivity	[dB]	-42 ± 3
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 18K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø6 X 5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CM06050 Series

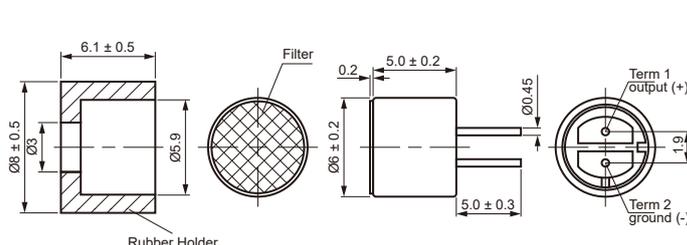


Housing
Aluminum
Terminal
Pin

		CM06050-2022-382P-H
Directivity		Omnidirectional
Sensitivity	[dB]	-38 ± 2
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	2
Output Impedance	[ohm]	2.2K
Frequency Range	[Hz]	50 ~ 18K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø6 X 5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CM09445 Series

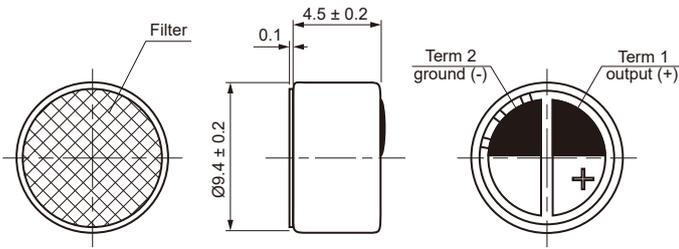


Housing
Aluminum
Terminal
Solder Pad

		CM09445-4510-432S-1033
Directivity		Omnidirectional
Sensitivity	[dB]	-43 ± 2
Operating Voltage	[Vdc]	1 ~ 10
Standard Operating Voltage	[Vdc]	4.5
Output Impedance	[ohm]	1K
Frequency Range	[Hz]	50 ~ 16K
Current Consumption	[µA]	Max. 500
Sensitivity Reduction		Within -3 dB at 4V
S/N Ratio	[dBA]	Min. 60

Dimensions [size : Ø9.4 X 4.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CM09465 Series

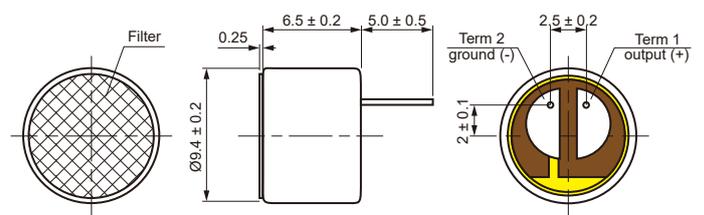


Housing
Aluminum
Terminal
Pin

		CM09465-2022-403P	CM09465-4522-423P
Directivity		Omnidirectional	Omnidirectional
Sensitivity	[dB]	-40 ± 3	-42 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	2	4.5
Output Impedance	[ohm]	2.2K	2.2K
Frequency Range	[Hz]	50 ~ 16K	50 ~ 16K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1.5V	Within -3 dB at 3V
S/N Ratio	[dBA]	Min. 56	Min. 56

Dimensions [size : Ø9.4 X 6.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CMUB9745 Series

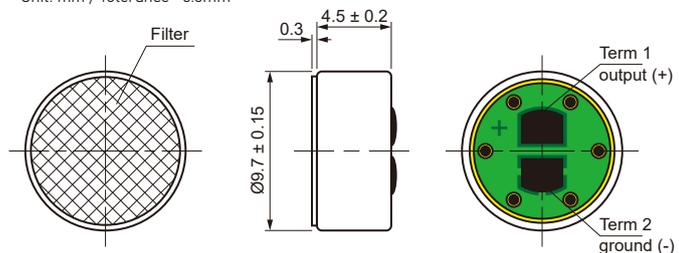


Housing
Aluminum
Terminal
Solder Pad

		CMUB9745-15068-383S-1033	CMUB9745-15068-403S-1033
Directivity		Unidirectional	Unidirectional
Sensitivity	[dB]	-38 ± 3	-40 ± 3
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	1.5	1.5
Output Impedance	[ohm]	680	680
Frequency Range	[Hz]	100 ~ 10K	100 ~ 10K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 58	Min. 58

Dimensions [size : Ø9.7 X 4.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone CM09750 Series

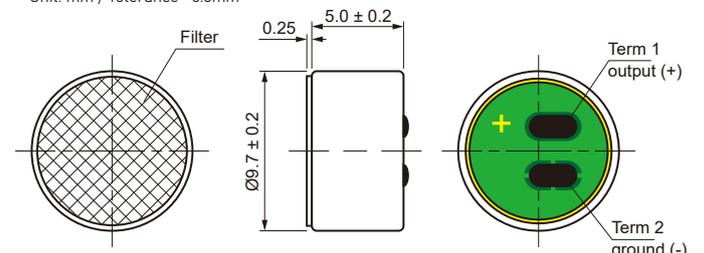


Housing
Aluminum
Terminal
Solder Pad

		CM09750-2022-434S	CM09750-4522-382S
Directivity		Omnidirectional	Omnidirectional
Sensitivity	[dB]	-43 ± 4	-38 ± 2
Operating Voltage	[Vdc]	1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc]	2	4.5
Output Impedance	[ohm]	2.2K	2.2K
Frequency Range	[Hz]	50 ~ 16K	50 ~ 16K
Current Consumption	[µA]	Max. 500	Max. 500
Sensitivity Reduction		Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA]	Min. 60	Min. 60

Dimensions [size : Ø9.7 X 5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CM09765 Series

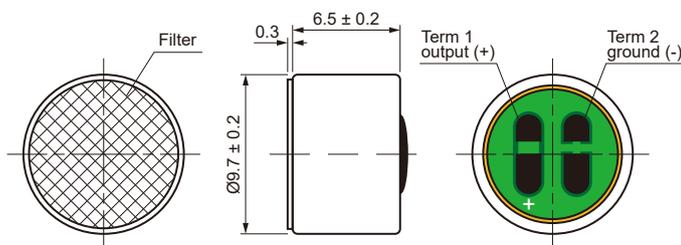


Housing
Aluminum
Terminal
Solder Pad

	CM09765-1522 -403S-1033	CM09765-4510 -442S-1033
Directivity	Omnidirectional	Omnidirectional
Sensitivity	[dB] -40 ± 3	-44 ± 2
Operating Voltage	[Vdc] 1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc] 1.5	4.5
Output Impedance	[ohm] 2.2K	1K
Frequency Range	[Hz] 50 ~ 16K	50 ~ 16K
Current Consumption	[µA] Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1V	Within -3 dB at 4V
S/N Ratio	[dBA] Min. 60	Min. 60

Dimensions [size : Ø9.7 X 6.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CM01055 Series

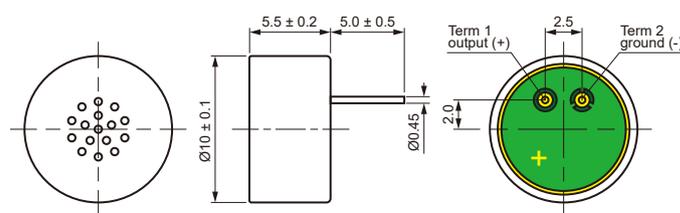


Housing
Aluminum
Terminal
Pin

	CM01055-3022 -423P-1033	CM01055-3030 -423P-1033
Directivity	Omnidirectional	Omnidirectional
Sensitivity	[dB] -42 ± 3	-42 ± 3
Operating Voltage	[Vdc] 1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc] 3	3
Output Impedance	[ohm] 2.2K	3K
Frequency Range	[Hz] 50 ~ 16K	50 ~ 16K
Current Consumption	[µA] Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA] Min. 60	Min. 60

Dimensions [size : Ø10 X 5.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMUB1465 Series

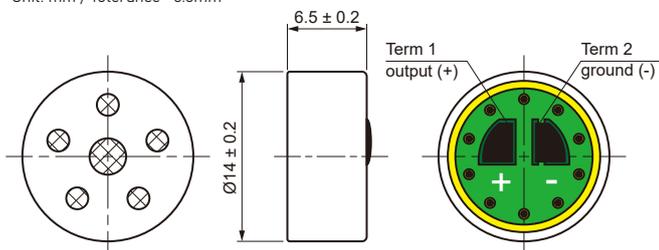


Housing
Aluminum
Terminal
Solder Pad

	CMUB1465-15068 -423S-1033	CMUB1465-15068 -473S-1033
Directivity	Unidirectional	Unidirectional
Sensitivity	[dB] -42 ± 3	-47 ± 3
Operating Voltage	[Vdc] 1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc] 1.5	1.5
Output Impedance	[ohm] 680	680
Frequency Range	[Hz] 100 ~ 10K	100 ~ 10K
Current Consumption	[µA] Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1.5V	Within -3 dB at 1.5V
S/N Ratio	[dBA] Min. 58	Min. 58

Dimensions [size : Ø14 X 6.5 mm]

Unit: mm / Tolerance ±0.3mm



Electret Condenser Microphone
CMUB1665 Series

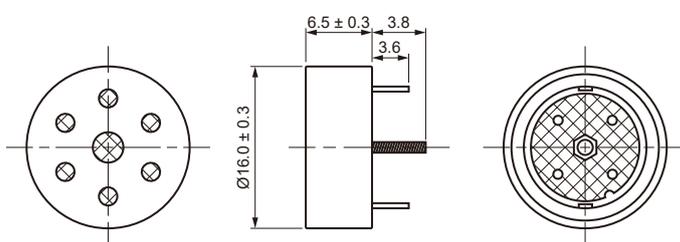


Housing
Aluminum
Terminal
Screw

	CMUB1665-15068 -392E-1	CMUB1665-15068 -402E
Directivity	Unidirectional	Unidirectional
Sensitivity	[dB] -39 ± 2	-40 ± 2
Operating Voltage	[Vdc] 1 ~ 10	1 ~ 10
Standard Operating Voltage	[Vdc] 1.5	1.5
Output Impedance	[ohm] 680	680
Frequency Range	[Hz] 100 ~ 10K	100 ~ 10K
Current Consumption	[µA] Max. 500	Max. 500
Sensitivity Reduction	Within -3 dB at 1V	Within -3 dB at 1V
S/N Ratio	[dBA] Min. 58	Min. 58

Dimensions [size : Ø16 X 6.5 mm]

Unit: mm / Tolerance ±0.3mm



12 MEMS Microphone

	Size (mm)	Height (mm)	Interface	Sensitivity (dB)	Supply Voltage (V)	Port Location	S/N Ratio (dBA)	Page No.
CMM2718AL-090H62S383	2.75x1.85	0.9	Analog	-38 ± 3	1.5 ~ 3.6	Bottom	62	71
CMM2718AL-090H62S381	2.75x1.85	0.9	Analog	-38 ± 1	1.5 ~ 3.6	Bottom	62	71
CMM3125AT-100H62S383	3.1x2.5	1	Analog	-38 ± 3	1.6 ~ 3.6	Top	62	71
CMM3125AT-100H62S381	3.1x2.5	1	Analog	-38 ± 1	1.6 ~ 3.6	Top	62	71
CMM3325AL-098H65S383	3.35x2.5	0.98	Analog	-38 ± 3	1.5 ~ 3.3	Bottom	65	71
CMM3325AL-098H65S381	3.35x2.5	0.98	Analog	-38 ± 1	1.5 ~ 3.3	Bottom	65	71
CMM3526AL-098H65S383	3.5x2.65	0.98	Analog	-38 ± 3	1.5 ~ 3.6	Bottom	65	71
CMM3526AL-098H65S381	3.5x2.65	0.98	Analog	-38 ± 1	1.5 ~ 3.6	Bottom	65	71
CMM3526DL-098H64S263	3.5x2.65	0.98	Digital PDM	-26 ± 3	1.62 ~ 3.6	Bottom	64	72
CMM3526DL-098H64S261	3.5x2.65	0.98	Digital PDM	-26 ± 1	1.62 ~ 3.6	Bottom	64	72
CMM3722AT-110H65S383	3.76x2.24	1	Analog	-38 ± 3	1.5 ~ 3.6	Top	65	72
CMM3722AT-110H65S381	3.76x2.24	1	Analog	-38 ± 1	1.5 ~ 3.6	Top	65	72
CMM3729AT-110H65S383	3.76x2.95	1.1	Analog	-38 ± 3	1.5 ~ 3.6	Top	65	72
CMM3729AT-110H65S381	3.76x2.95	1.1	Analog	-38 ± 1	1.5 ~ 3.6	Top	65	72
CMM4030DT-106H61S263	4x3	1.06	Digital PDM	-26 ± 3	1.6 ~ 3.6	Top	61	72
CMM4030DT-106H61S261	4x3	1.06	Digital PDM	-26 ± 1	1.6 ~ 3.6	Top	61	72

MEMS Microphone

CMM2718AL Series

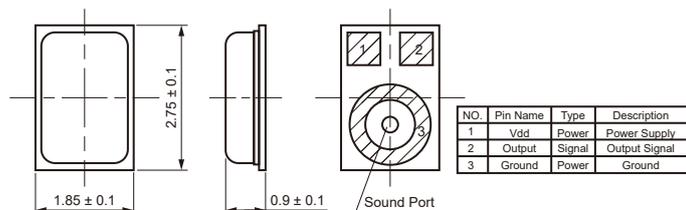


Terminal
SMT

	CMM2718AL -090H62S383	CMM2718AL -090H62S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Bottom	Bottom
Supply Voltage [V]	1.5 ~ 3.6	1.5 ~ 3.6
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [µA]	95	95
S/N Ration [dBA]	62	62
Acoustic Overload Point [dB SPL]	130	130
Total Harmonic Distortion [%]	1.0	1.0

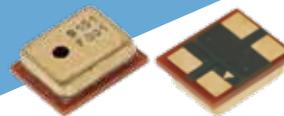
Dimensions [size : 2.75 X 1.85 X 0.9 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3125AT Series

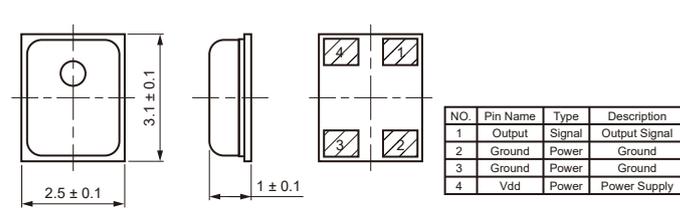


Terminal
SMT

	CMM3125AT -100H62S383	CMM3125AT -100H62S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Top	Top
Supply Voltage [V]	1.6 ~ 3.6	1.6 ~ 3.6
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [µA]	95	95
S/N Ration [dBA]	62	62
Acoustic Overload Point [dB SPL]	130	130
Total Harmonic Distortion [%]	1.0	1.0

Dimensions [size : 3.1 X 2.5 X 1 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3325AL Series

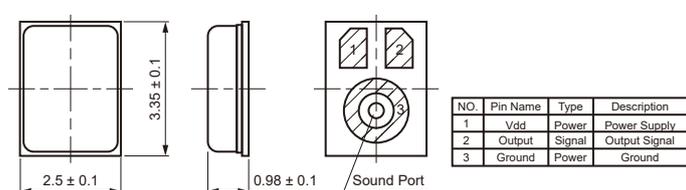


Terminal
SMT

	CMM3325AL -098H65S383	CMM3325AL -098H65S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Bottom	Bottom
Supply Voltage [V]	1.5 ~ 3.3	1.5 ~ 3.3
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [µA]	Max. 120	Max. 120
S/N Ration [dBA]	65	65
Acoustic Overload Point [dB SPL]	120	120
Total Harmonic Distortion [%]	0.2	0.2

Dimensions [size : 3.35 X 2.5 X 0.98 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3526AL Series

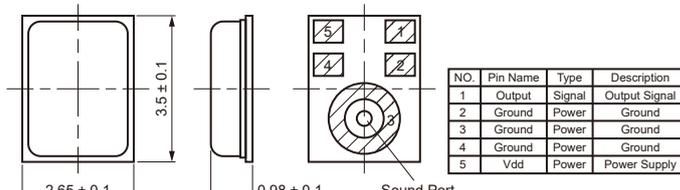


Terminal
SMT

	CMM3526AL -098H65S383	CMM3526AL -098H65S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Bottom	Bottom
Supply Voltage [V]	1.5 ~ 3.6	1.5 ~ 3.6
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [µA]	95	95
S/N Ration [dBA]	65	65
Acoustic Overload Point [dB SPL]	130	130
Total Harmonic Distortion [%]	1.0	1.0

Dimensions [size : 3.5 X 2.65 X 0.98 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3526DL Series

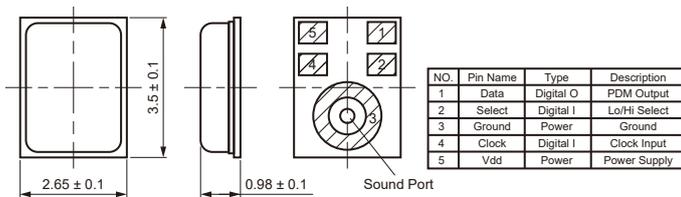
Terminal

SMT

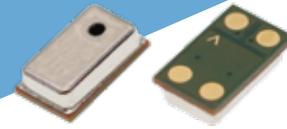
	CMM3526DL -098H64S263	CMM3526DL -098H64S261
Directivity	Omnidirectional	Omnidirectional
Interface	Digital PDM	Digital PDM
Port Location	Bottom	Bottom
Supply Voltage [V]	1.62 ~ 3.6	1.62 ~ 3.6
Sensitivity [dB]	-26 ± 3	-26 ± 1
Current consumption [μA]	800	800
S/N Ration [dBA]	64	64
Acoustic Overload Point [dB SPL]	120	120
Total Harmonic Distortion [%]	0.2	0.2

Dimensions [size : 3.5 X 2.65 X 0.98 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3722AT Series

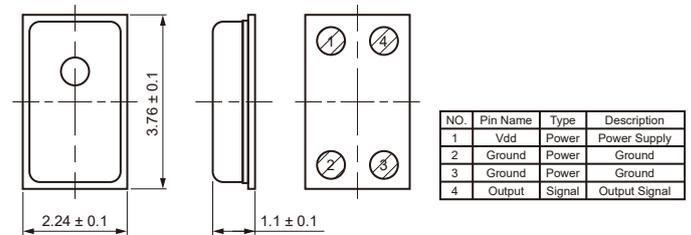
Terminal

SMT

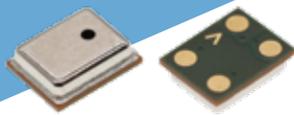
	CMM3722AT -110H65S383	CMM3722AT -110H65S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Top	Top
Supply Voltage [V]	1.5 ~ 3.6	1.5 ~ 3.6
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [μA]	80	80
S/N Ration [dBA]	65	65
Acoustic Overload Point [dB SPL]	130	130
Total Harmonic Distortion [%]	1.0	1.0

Dimensions [size : 3.76 X 2.24 X 1.1 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM3729AT Series

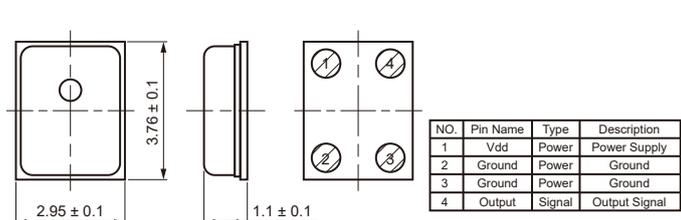
Terminal

SMT

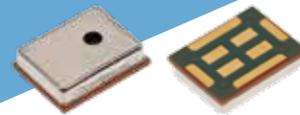
	CMM3729AT -110H65S383	CMM3729AT -110H65S381
Directivity	Omnidirectional	Omnidirectional
Interface	Analog	Analog
Port Location	Top	Top
Supply Voltage [V]	1.5 ~ 3.6	1.5 ~ 3.6
Sensitivity [dB]	-38 ± 3	-38 ± 1
Current consumption [μA]	80	80
S/N Ration [dBA]	65	65
Acoustic Overload Point [dB SPL]	130	130
Total Harmonic Distortion [%]	1.0	1.0

Dimensions [size : 3.76 X 2.95 X 1.1 mm]

Unit: mm / Tolerance ±0.1mm



MEMS Microphone

CMM4030DT Series

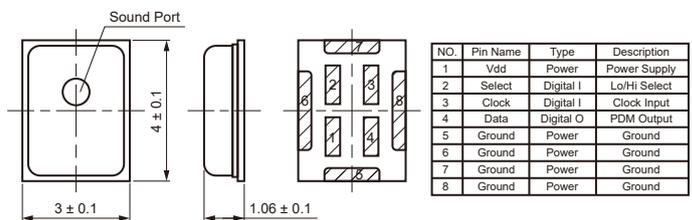
Terminal

SMT

	CMM4030DT -106H61S263	CMM4030DT -106H61S261
Directivity	Omnidirectional	Omnidirectional
Interface	Digital PDM	Digital PDM
Port Location	Top	Top
Supply Voltage [V]	1.6 ~ 3.6	1.6 ~ 3.6
Sensitivity [dB]	-26 ± 3	-26 ± 1
Current consumption [μA]	650	650
S/N Ration [dBA]	61	61
Acoustic Overload Point [dB SPL]	122	122
Total Harmonic Distortion [%]	0.1	0.1

Dimensions [size : 4 X 3 X 1.06 mm]

Unit: mm / Tolerance ±0.1mm



Loud Speaker 13

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (W)	Max. Input Power (W)	Sound Pressure Level (dB)	Resonant Frequency (F0)(Hz)	Page No.
LI45R-9H0.25W8	Ø45	10.5	8	0.25	0.5	89 [0.1W/0.1M]	700	73
LI50R-11H0.5W8	Ø50	11.5	8	0.5	1	88 [0.1W/0.1M]	550	73
LI50AN-12H1.0W8	Ø50	12	8	1	2	94 [0.1W/0.1M]	500	74
LI57S-13H0.5W45	57x57	13	45	0.5	1	90 [0.1W/0.1M]	550	74
LIU28R-12H2.0W3	Ø28	12.6	3	2	3	85 [0.1W/0.1M]	350	74
LIU36R-14H3.0W4	Ø36	15	4	3	5	86 [0.1W/0.1M]	280	74
LIU40S-19H2.0W4	40x40	19	4	2	3	85 [0.1W/0.1M]	200	75
LIU3070E-23H2.0W32	70x30	23	32	2	3	88 [0.1W/0.1M]	500	75
LE45R-15H0.5W8N	Ø45	15.5	8	0.5	1	89 [0.1W/0.1M]	650	75
LE66R-27H5.0W8N	Ø66	27	8	5	7	93 [0.1W/0.1M]	450	75
LE50S-15H2.0W8N	51x51	15.5	8	2	2.5	89 [0.1W/0.1M]	500	76
LEU87R-31H10W4N	Ø87	31	4	10	12	81 [0.1W/0.1M]	160	76
LEU66SN-35H10W4N	66x66	35.5	4	10	12	86 [0.1W/0.1M]	170	76
LEU102S-46H10W4N	102x102	46	4	10	20	95 [0.1W/0.1M]	110	76

Loud Speaker LI45R Series



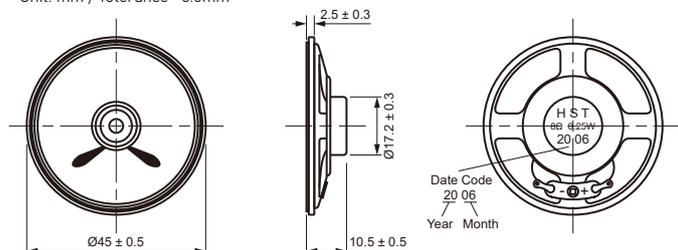
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LI45R-9H0.25W8

Sound Pressure Level	[dB]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	700
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-25 ~ +50
Magnet		Nd-Fe-B
Weight	[g]	15

Dimensions [size : Ø45 X 10.5 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker LI50R Series



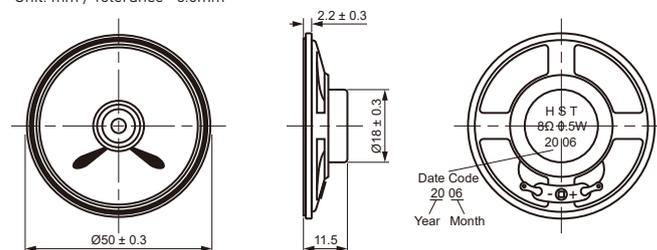
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LI50R-11H0.5W8

Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	550
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	18

Dimensions [size : Ø50 X 11.5 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker

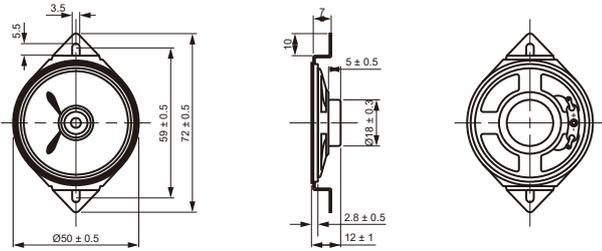
LI50AN Series

Frame
Metal
Cone
Paper
Terminal
Solder Pad

		LI50AN-12H1.0W8
Sound Pressure Level	[dB]	94 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 5000
Operating Temperature	[°C]	-30 ~ +75
Magnet		Nd-Fe-B
Weight	[g]	18

Dimensions [size : Ø50 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker

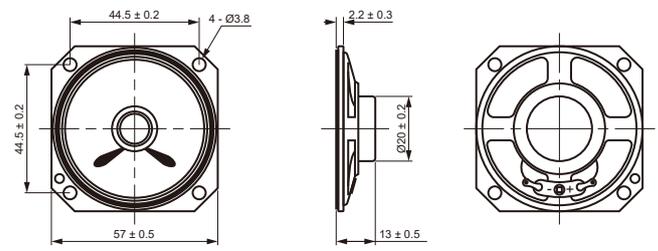
LI57S Series

Frame
Metal
Cone
Paper
Terminal
Solder Pad

		LI57S-13H0.5W45
Sound Pressure Level	[dB]	90 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	45
Rated Input Power	[W]	0.5
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	550
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	23

Dimensions [size : 57 X 57 X 13 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker

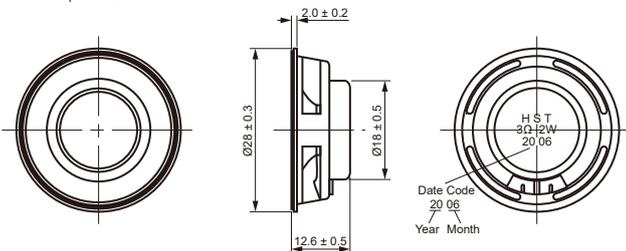
LIU28R Series

Frame
Metal
Cone
Paper
Terminal
Solder Pad

		LIU28R-12H2.0W3
Sound Pressure Level	[dB]	85 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	3
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	350
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +55
Magnet		Nd-Fe-B
Weight	[g]	11.5

Dimensions [size : Ø28 X 12.6 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker

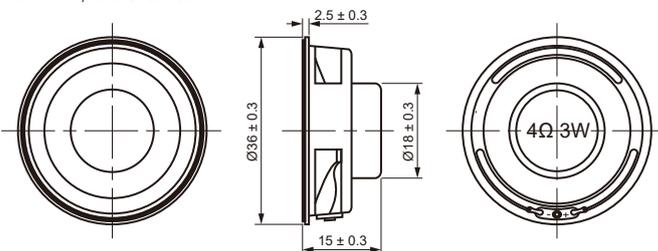
LIU36R Series

Frame
Metal
Cone
Paper
Terminal
Solder Pad

		LIU36R-15H3.0W4
Sound Pressure Level	[dB]	86 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	3
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	280
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +55
Magnet		Nd-Fe-B
Weight	[g]	15

Dimensions [size : Ø36 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker
LIU40S Series

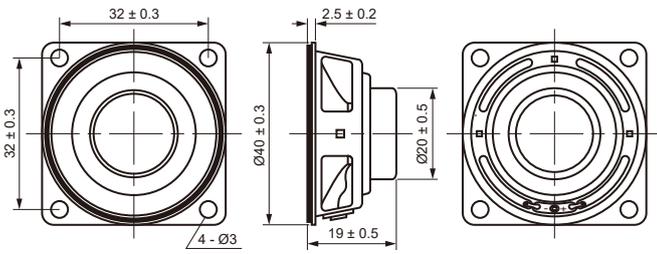


- Frame
- Metal
- Cone
- Paper
- Terminal
- Solder Pad

		LIU40S-19H2.0W4
Sound Pressure Level	[dB]	85 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	200
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	79

Dimensions [size : 40 X 40 X 19 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker
LIU3070E Series

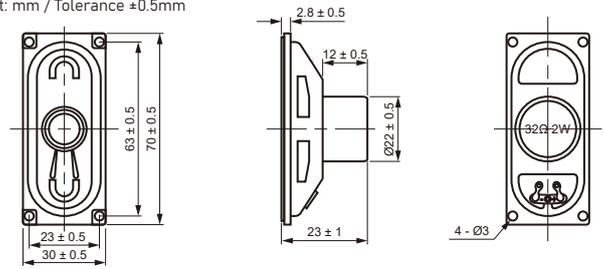


- Frame
- Metal
- Cone
- Paper
- Terminal
- Solder Pad

		LIU3070E-23H2.0W32
Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	32
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	35

Dimensions [size : 70 X 30 X 23 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker
LE45R Series

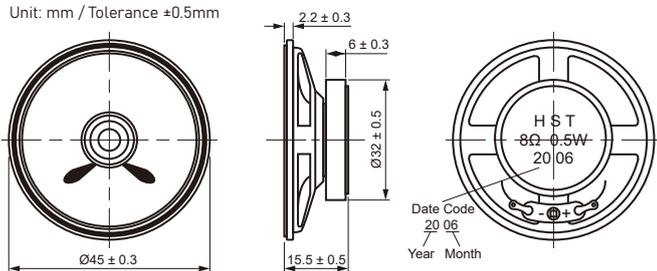


- Frame
- Metal
- Cone
- Paper
- Terminal
- Solder Pad

		LE45R-15H0.5W8N
Sound Pressure Level	[dB]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	650
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Ferrite
Weight	[g]	42

Dimensions [size : Ø45 X 15.5 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker
LE66R Series

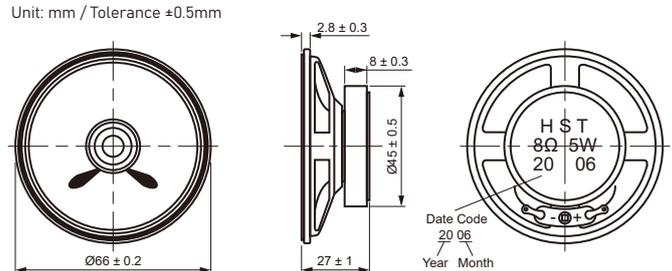


- Frame
- Metal
- Cone
- Paper
- Terminal
- Solder Pad

		LE66R-27H5.0W8N
Sound Pressure Level	[dB]	93 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	5
Max Input Power	[W]	7
Resonant Frequency (F0)	[Hz]	450
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Ferrite
Weight	[g]	99

Dimensions [size : Ø66 X 27 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker LE50S Series



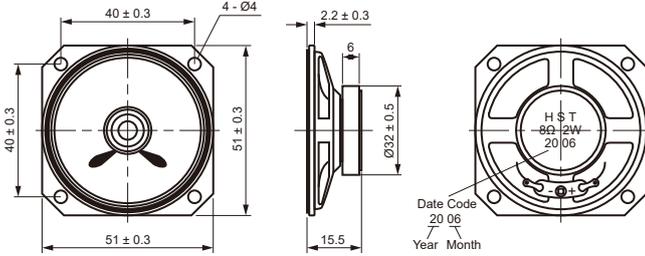
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LE50S-15H2.0W8N

Sound Pressure Level	[dB]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	2
Max Input Power	[W]	2.5
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +55
Magnet		Ferrite
Weight	[g]	45

Dimensions [size : 51 X 51 X 15.5 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker LEU87R Series



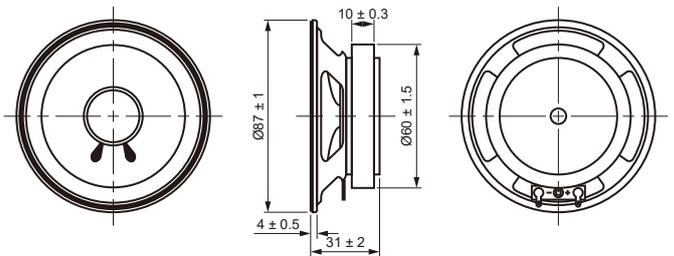
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LEU87R-31H10W4N

Sound Pressure Level	[dB]	81 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	10
Max Input Power	[W]	12
Resonant Frequency (F0)	[Hz]	160
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +70
Magnet		Ferrite
Weight	[g]	253

Dimensions [size : Ø87 X 31 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker LEU66SN Series



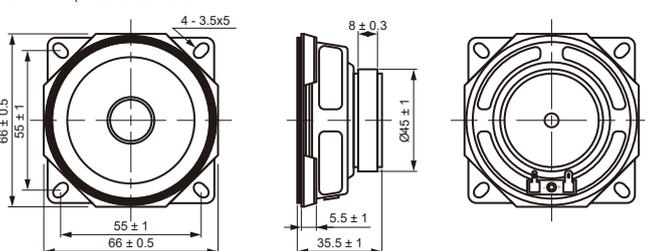
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LEU66SN-35H10W4N

Sound Pressure Level	[dB]	86 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	10
Max Input Power	[W]	12
Resonant Frequency (F0)	[Hz]	170
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +70
Magnet		Ferrite
Weight	[g]	145

Dimensions [size : 66 X 66 X 35.5 mm]

Unit: mm / Tolerance ±0.5mm



Loud Speaker LEU102S Series



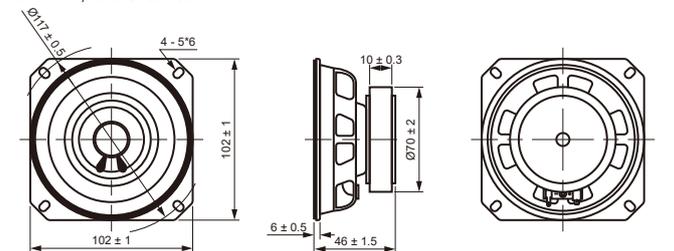
Frame
Metal
Cone
Paper
Terminal
Solder Pad

LEU102S-46H10W4N

Sound Pressure Level	[dB]	95 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	10
Max Input Power	[W]	20
Resonant Frequency (F0)	[Hz]	110
Frequency Range	[Hz]	F0 ~ 15000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Ferrite
Weight	[g]	406

Dimensions [size : 102 X 102 X 46 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker 14

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (W)	Max. Input Power (W)	Sound Pressure Level (dB)	Resonant Frequency (F0)(Hz)	Page No.
MI50BR-11H0.25W50	Ø50	11.5	50	0.25	0.5	91 [0.1W/0.1M]	500	78
MI70TR-16H1.0W8	Ø70	16	8	1	2	92 [0.1W/0.1M]	400	78
MI57BS-14H1.0W8	Ø57	14	8	1	2	91 [0.1W/0.1M]	600	78
MI87TSK-26H3.0W8	86x86	26	45	3	5	91 [0.1W/0.1M]	350	78
MI4070TE-23H5.0W4	71x40	23	4	5	6	90 [0.1W/0.1M]	550	79
MIU32R-19H3.0W4-1	Ø32	19	4	3	3.5	83 [0.1W/0.1M]	250	79
MIU45R-22H4.0W4	Ø45	22.5	4	4	5	83 [1W/1M]	140	79
MIU53S-28H5.0W4	53x53	28	4	5	8	87 [0.1W/0.1M]	130	79
MIU28RP-11H3.0W4	Ø28	11	4	3	4	85 [0.1W/0.1M]	300	80
ME40TR-22H3.0W4N	Ø40	22	4	3	5	94 [0.1W/0.1M]	680	80
ME50BR-16H0.2W8N	Ø50	16	8	0.25	0.4	89 [0.1W/0.1M]	500	80
ME57BS-17H1.0W8N	Ø57	17	8	1	2	91 [0.1W/0.1M]	590	80
ME102TS-37H10W4N	102x102	37.5	4	10	12	91 [0.1W/0.1M]	300	81
MEU36R-20H1.0W8N	Ø36	19.5	8	1	2	87 [0.1W/0.1M]	400	81
MEU52S-25H3.0W4N	52.7x52.7	25.5	4	3	5	83 [1W/1M]	130	81
OST20R-3B0.25W8C	Ø20	3.7	8	0.25	0.5	80 [0.1W/0.1M]	950	81
OST28R-5B1.0W4N	Ø27.9	5.2	4	1	2	86 [0.1W/0.1M]	500	82
OST28R-5B2.0W8N	Ø27.9	5.2	8	2	3	86 [0.1W/0.1M]	500	82
OST36R-4B1.0W8N	Ø36	4.8	8	1	1.2	90 [0.1W/0.1M]	500	82
OST36R-4B1.0W4N	Ø36	4.8	4	1	1.5	89 [0.1W/0.1M]	550	82
OST40R-5B0.5W8N	Ø40	5	8	0.5	0.8	88 [0.1W/0.1M]	360	82
OST45R-5B0.25W8C	Ø45	5	8	0.25	0.5	88 [0.1W/0.1M]	480	82
OST50R-7B0.5W8C	Ø50	7.5	8	0.5	1	92 [0.1W/0.1M]	500	83
OST50R-7B0.5W32C	Ø50	7.5	32	0.5	0.8	89 [0.1W/0.1M]	500	83
OST57R-8B0.2W8C	Ø57	8	8	0.2	0.5	90 [0.1W/0.1M]	400	83
OST57R-8B0.5W32C	Ø57	8	32	0.5	1	90 [0.1W/0.1M]	400	83
OSAI27S-5T0.5W8	Ø27	5	8	0.5	0.6	88 [0.1W/0.1M]	710	83
OSAI27S-5T0.5W16	Ø27	5	16	0.5	0.6	88 [0.1W/0.1M]	710	83
OSAE27S-9T0.25W8	Ø27	8.7	4	0.25	0.5	90 [0.1W/0.1M]	800	83
OSAE27S-9T0.25W32	Ø27	8.7	8	0.25	0.5	90 [0.1W/0.1M]	800	83

Mylar Speaker MI50BR Series



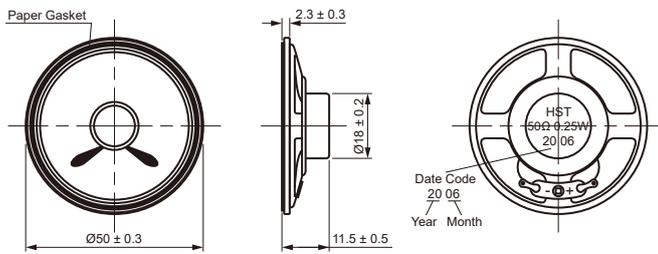
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

MI50BR-11H0.25W50

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	50
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	16

Dimensions [size : Ø50 X 11.5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker MI70TR Series



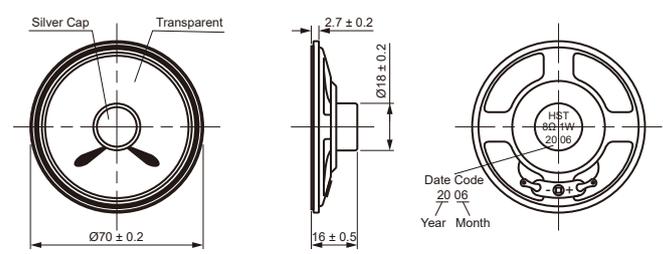
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

MI70TR-16H1.0W8

Sound Pressure Level	[dB]	92 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	400
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	21

Dimensions [size : Ø70 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker MI57BS Series



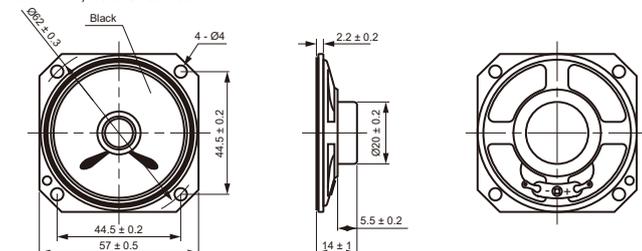
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

MI57BS-14H1.0W8

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	600
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	22

Dimensions [size : 57 X 57 X 14 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker MI87TSK Series



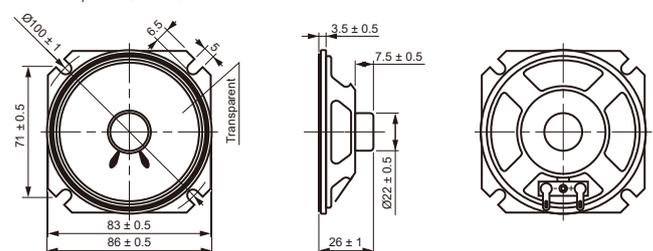
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

MI87TSK-26H3.0W8

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	3
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	350
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	41

Dimensions [size : 86 X 86 X 26 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MI4070TE Series



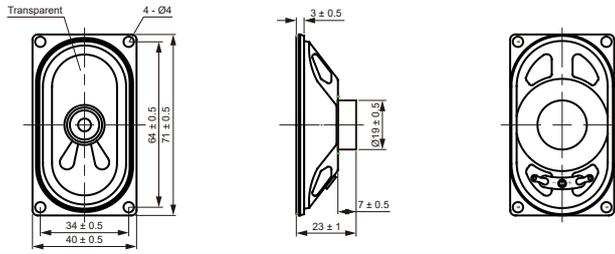
- Frame Metal
- Cone Mylar
- Terminal Solder Pad

MI4070TE-23H5.0W4

Sound Pressure Level	[dB]	90 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	5
Max Input Power	[W]	6
Resonant Frequency (F0)	[Hz]	550
Frequency Range	[Hz]	F0 ~ 15000
Operating Temperature	[°C]	-30 ~ +75
Magnet		Nd-Fe-B
Weight	[g]	30

Dimensions [size : 71 X 40 X 23 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MIU32R Series



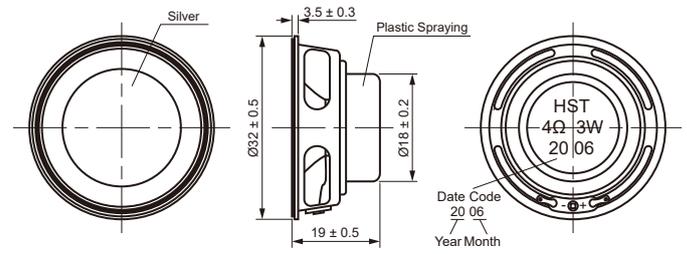
- Frame Metal
- Cone Mylar
- Terminal Solder Pad

MIU32R-19H3.0W4-1

Sound Pressure Level	[dB]	83 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	3
Max Input Power	[W]	3.5
Resonant Frequency (F0)	[Hz]	250
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +50
Magnet		Nd-Fe-B
Weight	[g]	16

Dimensions [size : Ø32 X 19 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MIU45R Series



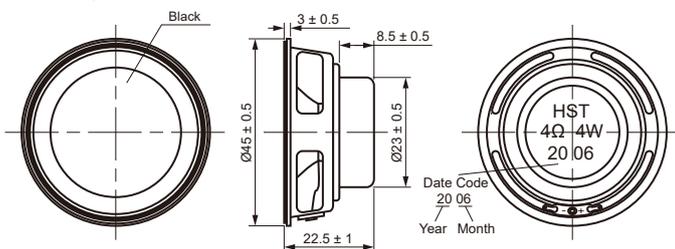
- Frame Metal
- Cone PP
- Terminal Solder Pad

MIU45R-22H4.0W4

Sound Pressure Level	[dB]	83 ± 3 [1W / 1M]
Impedance	[ohm]	4
Rated Input Power	[W]	4
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	140
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	31

Dimensions [size : Ø45 X 22.5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MIU53S Series



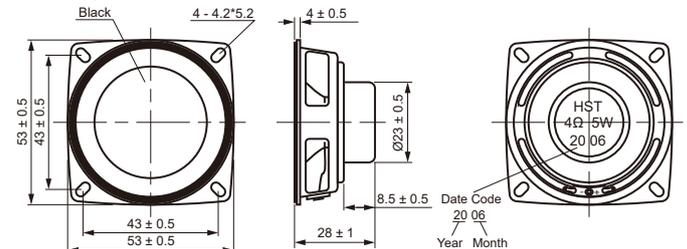
- Frame Metal
- Cone PEI
- Terminal Solder Pad

MIU53S-28H5.0W4

Sound Pressure Level	[dB]	87 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	5
Max Input Power	[W]	8
Resonant Frequency (F0)	[Hz]	130
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +75
Magnet		Nd-Fe-B
Weight	[g]	39

Dimensions [size : 53 X 53 X 28 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker MIU28RP Series



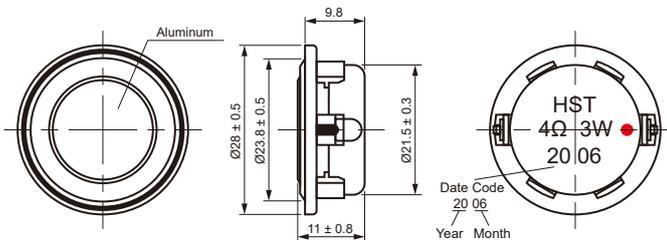
Frame
Metal
Cone
Aluminum
Terminal
Solder Pad

MIU28RP-11H3.0W4

Sound Pressure Level	[dB]	85 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	3
Max Input Power	[W]	4
Resonant Frequency (F0)	[Hz]	300
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	16

Dimensions [size : Ø28 X 11 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker ME40TR Series



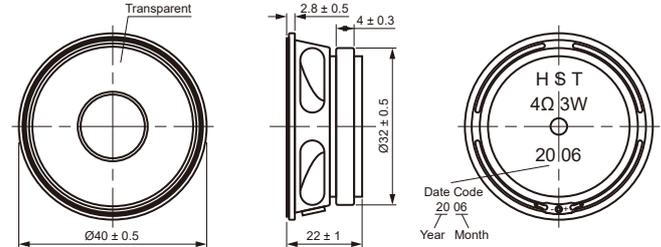
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

ME40TR-22H3.0W4N

Sound Pressure Level	[dB]	94 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	3
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	680
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +85
Magnet		Nd-Fe-B
Weight	[g]	54

Dimensions [size : Ø40 X 22 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker ME50BR Series



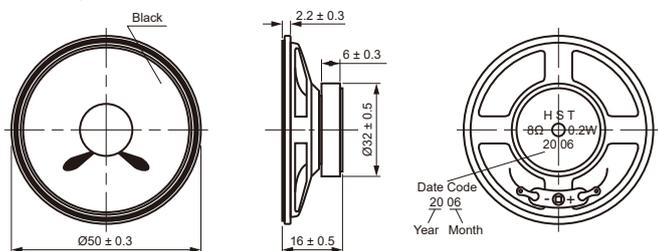
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

ME50BR-16H0.2W8N

Sound Pressure Level	[dB]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.4
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Ferrite
Weight	[g]	46

Dimensions [size : Ø50 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker ME57BS Series



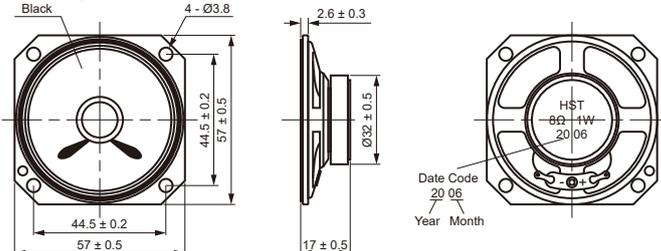
Frame
Metal
Cone
Mylar
Terminal
Solder Pad

ME57BS-17H1.0W8N

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	590
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Ferrite
Weight	[g]	47

Dimensions [size : 57 X 57 X 17 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
ME102TS Series



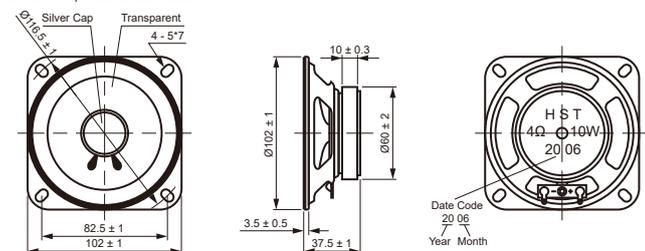
- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

ME102TS-37H10W4N

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	10
Max Input Power	[W]	12
Resonant Frequency (F0)	[Hz]	300
Frequency Range	[Hz]	F0 ~ 5000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Ferrite
Weight	[g]	252

Dimensions [size : 102 X 102 X 37.5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MEU36R Series



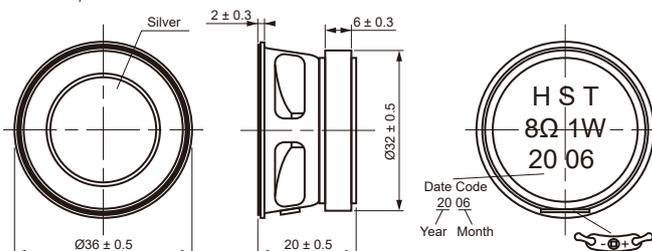
- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

MEU36R-20H1.0W8N

Sound Pressure Level	[dB]	87 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	400
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Ferrite
Weight	[g]	42

Dimensions [size : Ø36 X 20 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
MEU52S Series



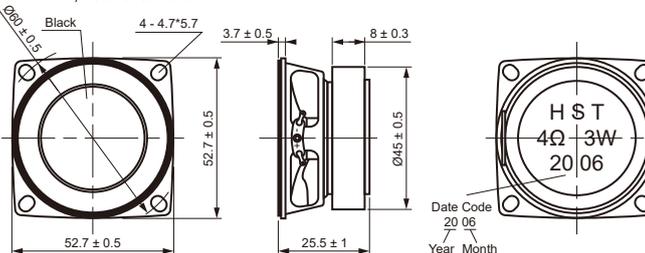
- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

MEU52S-25H3.0W4N

Sound Pressure Level	[dB]	83 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4
Rated Input Power	[W]	3
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	130
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Ferrite
Weight	[g]	89

Dimensions [size : 52.7 X 52.7 X 25.5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
OST20R Series



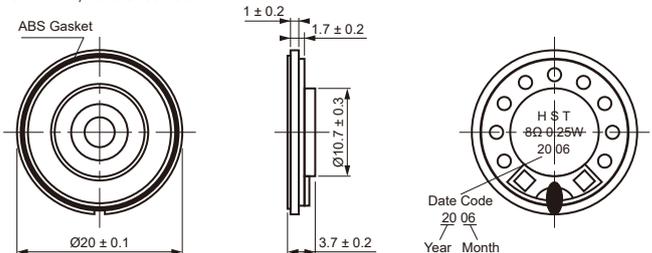
- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

OST20R-3B0.25W8C

Sound Pressure Level	[dB]	80 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	950
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	3

Dimensions [size : Ø20 X 3.7 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker OST28R Series

IP65

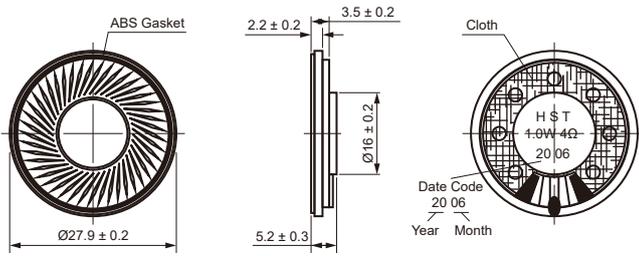


Frame
Metal
Cone
Mylar
Terminal
Solder Pad

		OST28R-5B1.0W4N	OST28R-5B2.0W8N
Sound Pressure Level	[dB]	86 ± 3 [0.1W / 0.1M]	86 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	4	8
Rated Input Power	[W]	1	2
Max Input Power	[W]	2	3
Resonant Frequency (F0)	[Hz]	500	500
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	8	8

Dimensions [size : Ø27.9 X 5.2 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker OST36R Series

IP65

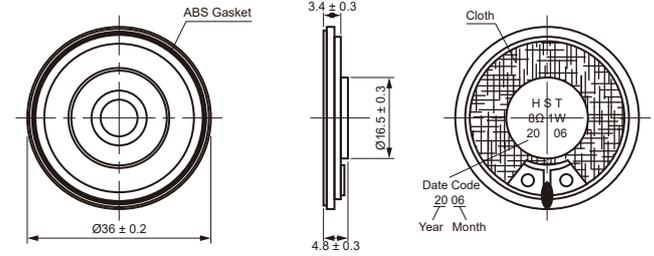


Frame
Metal
Cone
Mylar
Terminal
Solder Pad

		OST36R-4B1.0W8N	OST36R-4B1.0W4N
Sound Pressure Level	[dB]	90 ± 3 [0.1W / 0.1M]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8	4
Rated Input Power	[W]	1	1
Max Input Power	[W]	1.2	1.5
Resonant Frequency (F0)	[Hz]	500	550
Frequency Range	[Hz]	F0 ~ 6000	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	10	10

Dimensions [size : Ø36 X 4.8 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker OST40R Series

IP65

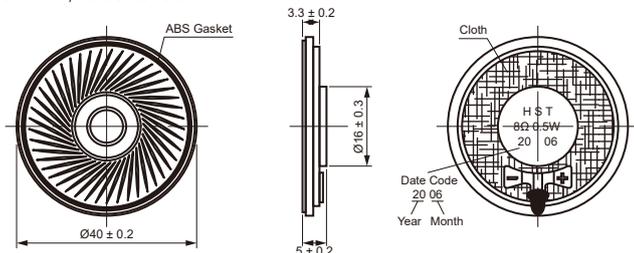


Frame
Metal
Cone
Mylar
Terminal
Solder Pad

		OST40R-5B0.5W8N
Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.8
Resonant Frequency (F0)	[Hz]	360
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	10

Dimensions [size : Ø40 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker OST45R Series

IP65

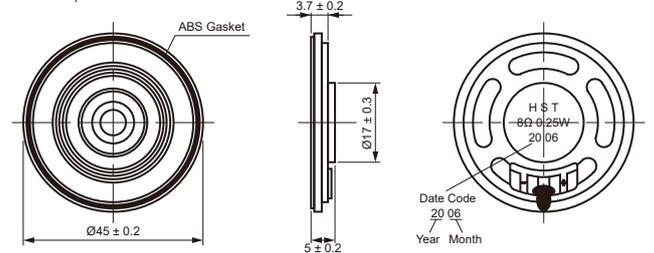


Frame
Metal
Cone
Mylar
Terminal
Solder Pad

		OST45R-5B0.25W8C
Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	480
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	13

Dimensions [size : Ø45 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
OST50R Series

IP65

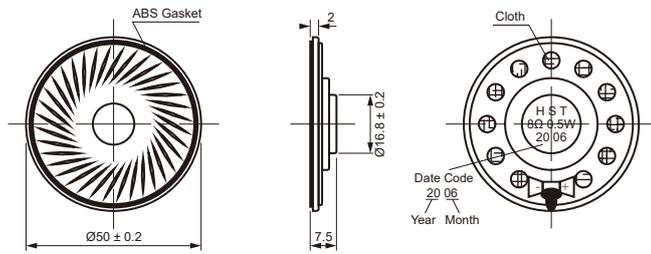


- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

		OST50R-7B0.5W8C	OST50R-7B0.5W32C
Sound Pressure Level	[dB]	92 ± 3 [0.1W / 0.1M]	89 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8	32
Rated Input Power	[W]	0.5	0.5
Max Input Power	[W]	1	0.8
Resonant Frequency (F0)	[Hz]	500	500
Frequency Range	[Hz]	F0 ~ 6000	F0 ~ 6000
Operating Temperature	[°C]	-25 ~ +70	-25 ~ +70
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	12	12

Dimensions [size : Ø50 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
OST57R Series

IP65

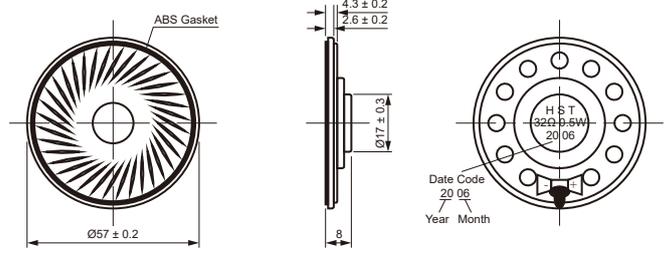


- Frame
Metal
- Cone
Mylar
- Terminal
Solder Pad

		OST57R-8B0.2W8C	OST57R-8B0.5W32C
Sound Pressure Level	[dB]	90 ± 3 [0.1W / 0.1M]	90 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8	32
Rated Input Power	[W]	0.2	0.5
Max Input Power	[W]	0.5	1
Resonant Frequency (F0)	[Hz]	400	400
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +60	-25 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	15	15

Dimensions [size : Ø57 X 8 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
OSAI27S Series

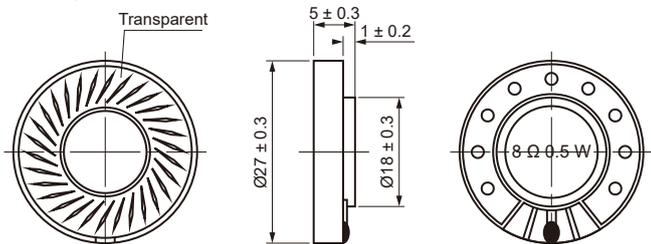


- Frame
Plastic
- Cone
Mylar
- Terminal
Solder Pad

		OSAI27S-5T0.5W8	OSAI27S-5T0.5W16
Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8	16
Rated Input Power	[W]	0.5	0.5
Max Input Power	[W]	0.6	0.6
Resonant Frequency (F0)	[Hz]	710	710
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	5	5

Dimensions [size : Ø27 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Mylar Speaker
OSAE27S Series

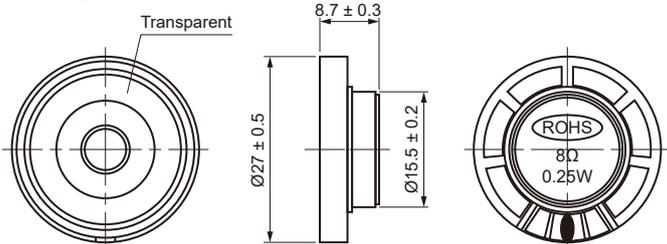


- Frame
Plastic
- Cone
Mylar
- Terminal
Solder Pad

		OSAE27S-9T0.25W8	OSAE27S-9T0.25W32
Sound Pressure Level	[dB]	90 ± 3 [0.1W / 0.1M]	90 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8	32
Rated Input Power	[W]	0.25	0.25
Max Input Power	[W]	0.5	0.5
Resonant Frequency (F0)	[Hz]	800	800
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Ferrite	Ferrite
Weight	[g]	8	8

Dimensions [size : Ø27 X 8.7 mm]

Unit: mm / Tolerance ±0.5mm



15 Micro Speaker

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (W)	Max. Input Power (W)	Sound Pressure Level (dB)	Resonant Frequency (F0)(Hz)	Page No.
OSR1206E-2.0TB0.25W8A-R	12x6	2.1	8	0.25	0.5	81 [0.25W/10cm]	1100	85
OSR1305V-3.3T0.5W8A-R	13.6x5.1	3.3	8	0.5	0.8	88 [0.5W/5cm]	950	85
OSR1307V-3.4T0.5W7A-R	13.1x7.1	3.4	7	0.5	0.7	102 [0.5W/2cm]	1050	86
OSR1508EA-3.0T0.8W8A-R	15x8	3	8	0.8	1.2	91 [0.8W/10cm]	1200	86
OSR1508EA-2.8TB0.7W6A	15x8	2.8	6	0.7	1	90 [0.7W/10cm]	1200	86
OSR1511E-2.5T0.5W8A	15x11	2.5	8	0.5	1	88 [0.5W/10cm]	700	86
OSR1511E-3.5TB0.7W8A-R	15x11	3.5	8	0.7	1	89 [0.7W/10cm]	600	87
OSR1511EB-3.0TB1.0W6A	15x11	3	6	1	1.2	94 [1W/10cm]	850	87
OSR1511EB-3.0TB1.0W8A	15x11	3	8	1	1.3	95 [1W/10cm]	950	87
OSR1609EA-2.5TB0.7W8A-R	16x9	2.5	8	0.7	1	90 [0.7W/10cm]	850	87
OSR1609EC-3.0TB0.7W8A-R	16x9	3	8	0.7	1	91 [0.7W/10cm]	850	87
OSR1612E-3.2M1.0W7A	16x12	3.2	7	1	1.5	96 [1W/10cm]	880	88
OSR1712EA-3.3TB1.0W8A	17x12	3.3	8	1	1.2	96 [1W/10cm]	1000	88
OSR1813EA-2.5TB0.7W8A	18x13	2.5	8	0.7	1	93 [0.7W/10cm]	800	88
OSR1813EB-4.5TB0.7W8A-R	18x13	4.5	8	0.7	1	94 [0.7W/10cm]	900	88
OSR2011E-3.7TB1.5W8A	20x11	3.7	8	1.5	1.7	101 [1.5W/10cm]	1050	89
OSR2016E-2.4TS1.0W8A-1	20x16	2.4	8	1	1.5	94 [1W/10cm]	600	89
OSR2113E-3.7TB2.0W4A	21x13	3.7	4	2	2.2	103.5 [2W/10cm]	1050	89
OSR2314E-3.7TB2.0W4A	23x14	3.7	4	2	2.2	104 [2W/10cm]	1050	89
OSR2514EA-5.0TB2.0W4A	25x14	5	4	2	2.2	100 [2W/10cm]	1000	90
OSR2514EA-5.0TB2.0W4A-1	25x14	5	4	2	2.2	103 [2W/10cm]	950	90
OSR4013E-4.6TB2.0W4A	40x13	4.6	4	2	2.5	98 [2W/10cm]	550	90
OSR2514E-5.0P1.0W4A	25x14	5	4	1	1.5	94 [1W/10cm]	500	90
OSR2515E-4.8C0.5W8A	25x15	4.8	8	0.5	1	92 [0.5W/10cm]	900	90
OSR3516E-5.8C1.0W4A	35x16	5.8	4	1	2	83 [1W/50cm]	670	91
OSR2720E-6.5C1.0W8A	27x20	6.5	8	1	3	80 [1W/50cm]	750	91
OSR3520E-7.6C2.0W8A	35x20	7.6	8	2	3	85 [1W/50cm]	800	91
OSR3520E-7.6C1.0W8A	35x20	7.6	8	1	2	85 [1W/50cm]	800	91
OSR4020E-8.0C1.5W8A	40x20	8	8	1.5	3	88 [0.1W/10cm]	550	91
OSR4020E-8.0C1.5W16A	40x20	8	16	1.5	3	90 [0.1W/10cm]	550	91
OSR4020E-5.8C2.0W4M	40x20	5.8	4	2	3	91 [0.1W/10cm]	600	92
OSR4020E-5.8C2.0W8M	40x20	5.8	8	2	3	91 [0.1W/10cm]	600	92
OSR4028E-11.8P1.0W8A	40x28	11.8	8	1	1.5	85 [1W/50cm]	550	92
OSR4028E-12P2.0W8A	40x28	11.8	8	2	3	85 [1W/50cm]	500	92
OSR5030E-11.8P2.0W8A	50.2x30.2	11.8	8	2	3	85 [1W/50cm]	500	92
OSR10R-4.6F0.3W8M-W	Ø10	4.6	8	0.3	0.5	81 [0.1W/10cm]	1300	92
OSR15R-4.8F1.2W8A	Ø15	4.8	8	1.2	1.8	85 [0.1W/10cm]	900	93
OSR16R-4.7F0.8W8A-W	Ø16	4.7	8	0.8	1	89 [0.1W/10cm]	900	93
OSR18R-4.2F0.7W8A-W	Ø18	4.2	8	0.7	1	91 [0.1W/10cm]	900	93

Micro Speaker 15

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (W)	Max. Input Power (W)	Sound Pressure Level (dB)	Resonant Frequency (F0)(Hz)	Page No.
OSR20R-5.7F0.5W8A-W	Ø20	5.7	8	0.5	0.8	90 [0.1W/10cm]	750	93
OSR28R-7.9T2.0W4A	Ø28	7.9	4	2	3	103 [2W/10cm]	570	94
OSR1813V-5.0F0.5W8A-W	18x13	5	8	0.5	0.8	84 [0.1W/10cm]	900	94
OSR3020V-4.2M1.0W8A	30x20	4.2	8	1	1.2	100 [1W/10cm]	800	94
OSR1313S-4.0A0.7W8A-D	13x13	4	8	0.7	1	88 [0.7W/10cm]	850	94
OSR1515S-4.0A0.5W8A-D	15x15	4	8	0.5	0.8	87 [0.5W/10cm]	850	95
OSR1818S-4.8A1.0W8A-D	18x18	4.8	8	1	1.5	95 [0.5W/10cm]	1000	95
OSR2020S-4.5A0.8W8A-D	20x20	4.6	8	0.8	1	90 [0.8W/10cm]	850	95
OSR15R-7.5A0.3W8A-P	Ø15	7.5	8	0.3	0.5	90 [0.3W/10cm]	2000	95
OSR23R-8.5A0.1W8A-P	Ø23	8.5	8	0.1	0.15	85 [0.1W/10cm]	1500	96
OSR23H-13A0.25W8A-P	23x23	13.6	8	0.25	0.5	90 [0.25W/10cm]	325	96
OSR30R-12A0.1W8A-P	Ø29.5	12	8	0.1	0.15	88 [0.1W/10cm]	1200	96
OSR32R-14.5A0.2W8A-P	Ø31.7	15	8	0.2	0.3	83 [0.2W/10cm]	1200	96

Micro Speaker

OSR1206E Series



Frame

LCP

Cone

PEEK

Terminal

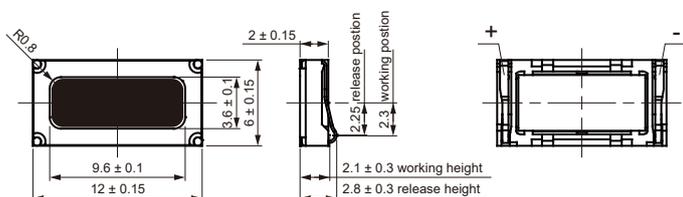
Spring

OSR1206E-2.0TB0.25W8A-R

Sound Pressure Level	[dB]	81 ± 3 [0.25W / 10cm / 0.5cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	1100
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	0.4

Dimensions [size : 12 X 6 X 2.1 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1305V Series

IP68



Frame

PPA

Cone

PU

Terminal

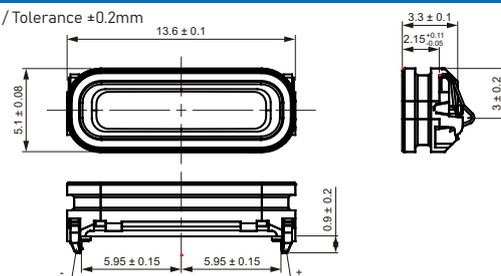
Spring

OSR1305V-3.3T0.5W8A-R

Sound Pressure Level	[dB]	88 ± 3 [0.5W / 5cm / 2.3cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.8
Resonant Frequency (F0)	[Hz]	950
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	0.7

Dimensions [size : 13.6 X 5.1 X 3.3 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1307V Series

IP68



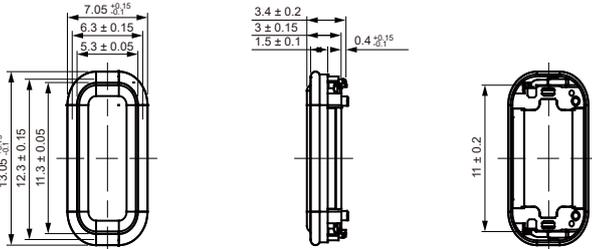
Frame
PPA
Cone
PU
Terminal
Spring

OSR1307V-3.4T0.5W7A-R

Sound Pressure Level	[dB]	102 ± 3 [0.5W / 2cm / 1cc box]
Impedance	[ohm]	7
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.7
Resonant Frequency (F0)	[Hz]	1050
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +55
Magnet		Nd-Fe-B
Weight	[g]	0.7

Dimensions [size : 13.1 X 7.1 X 3.4 mm]

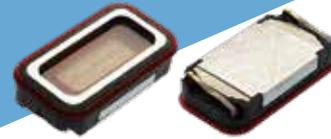
Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1508EA Series

IP68



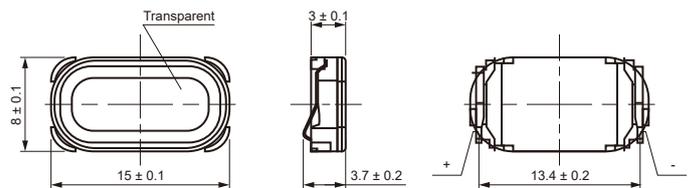
Frame
PPA
Cone
PEN
Terminal
Spring

OSR1508EA-3.0T0.8W8A-R

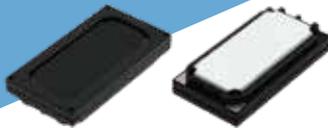
Sound Pressure Level	[dB]	91 ± 3 [0.8W / 10cm / 4cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.8
Max Input Power	[W]	1.2
Resonant Frequency (F0)	[Hz]	1200
Frequency Range	[Hz]	200 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.2

Dimensions [size : 15 X 8 X 3 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1508EC Series

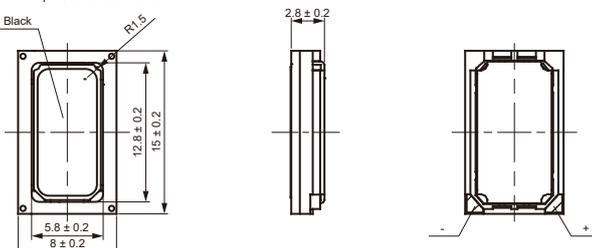
Frame
PPA
Cone
PEEK
Terminal
Solder Pad

OSR1508EC-2.8TB0.7W6A

Sound Pressure Level	[dB]	90 ± 3 [0.7W / 10cm / 1cc box]
Impedance	[ohm]	6
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	1200
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 15 X 8 X 2.8 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1511E Series

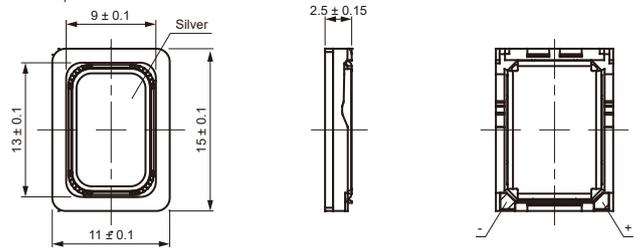
Frame
PBT
Cone
PEEK
Terminal
Solder Pad

OSR1511E-2.5TS0.5W8A

Sound Pressure Level	[dB]	88 ± 3 [0.5W / 10cm / free air]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	700
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 15 X 11 X 2.5 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker
OSR1511E Series

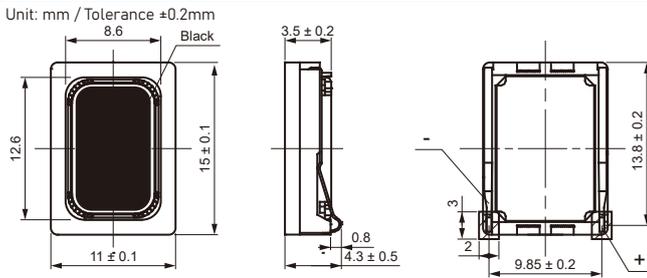


- Frame
PBT
- Cone
PEN
- Terminal
Spring

OSR1511E-3.5TB0.7W8A-R

Sound Pressure Level	[dB]	89 ± 3 [0.7W / 10cm / free air]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	600
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 15 X 11 X 3.5 mm]



Micro Speaker
OSR1511EB Series

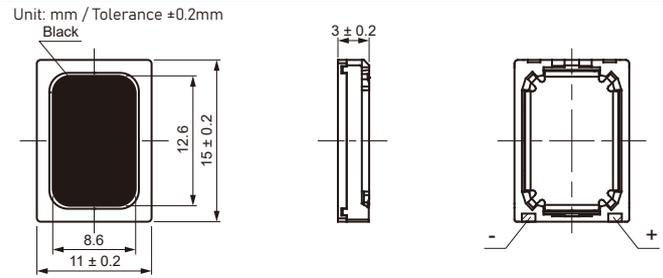


- Frame
PPA
- Cone
PEEK
- Terminal
Solder Pad

OSR1511EB-3.0TB1.0W6A **OSR1511EB-3.0TB1.0W8A**

Sound Pressure Level	[dB]	94 ± 3 [1W / 10cm]	95 ± 3 [1W / 10cm]
Impedance	[ohm]	6	8
Rated Input Power	[W]	1	1
Max Input Power	[W]	1.2	1.3
Resonant Frequency (F0)	[Hz]	850	950
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	1.5	1.5

Dimensions [size : 15 X 11 X 3 mm]



Micro Speaker
OSR1609EA Series

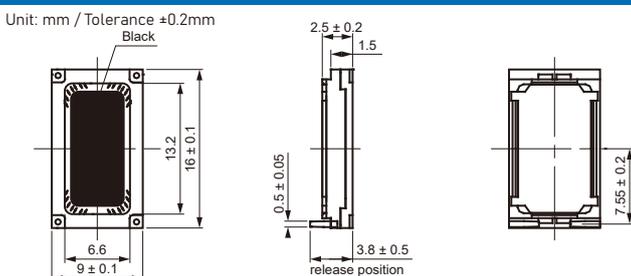


- Frame
PPA
- Cone
PEEK
- Terminal
Spring

OSR1609EA-2.5TB0.7W8A-R

Sound Pressure Level	[dB]	90 ± 3 [0.7W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 16 X 9 X 2.5 mm]



Micro Speaker
OSR1609EC Series

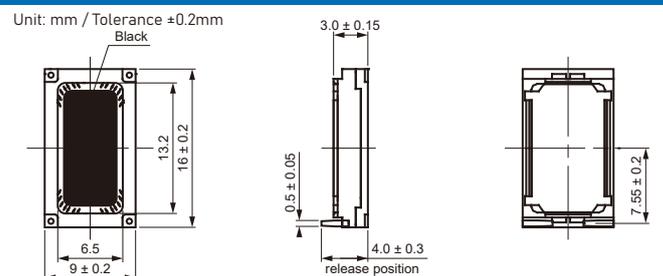


- Frame
PBT
- Cone
PEEK
- Terminal
Spring

OSR1609EC-3.0TB0.7W8A-R

Sound Pressure Level	[dB]	91 ± 3 [0.7W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 16 X 9 X 3 mm]



Micro Speaker

OSR1612E Series

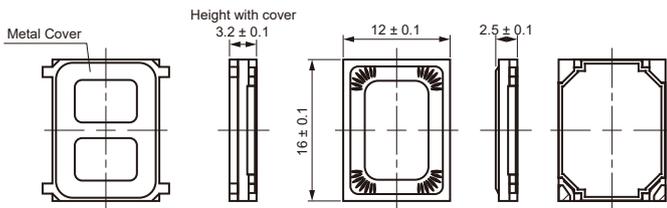
Frame
PPA
Cone
PEEK
Terminal
Solder Pad

OSR1612E-3.2M1.0W7A

Sound Pressure Level	[dB]	96 ± 3 [1W / 10cm / 1cc box]
Impedance	[ohm]	7
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	880
Frequency Range	[Hz]	200 ~ 20000
Operating Temperature	[°C]	-25 ~ +55
Magnet		Nd-Fe-B
Weight	[g]	2

Dimensions [size : 16 X 12 X 3.2 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1712EA Series

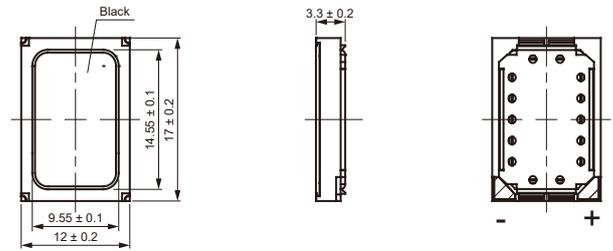
Frame
PPA
Cone
PEEK
Terminal
Solder Pad

OSR1712EA-3.3TB1.0W8A

Sound Pressure Level	[dB]	96 ± 3 [1W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.2
Resonant Frequency (F0)	[Hz]	1000
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2.1

Dimensions [size : 17 X 12 X 3.3 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1813EA Series

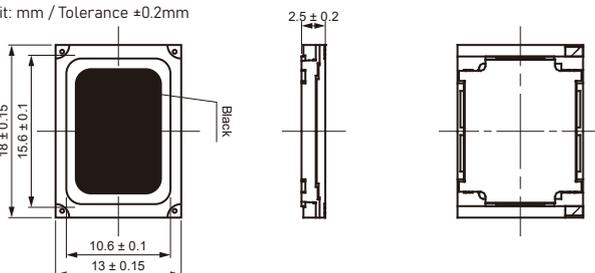
Frame
PPA
Cone
PEEK
Terminal
Solder Pad

OSR1813EA-2.5TB0.7W8A

Sound Pressure Level	[dB]	93 ± 3 [0.7W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	800
Frequency Range	[Hz]	500 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2

Dimensions [size : 18 X 13 X 2.5 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

OSR1813EB Series

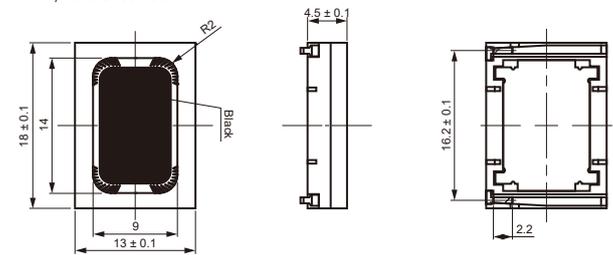
Frame
PPA
Cone
PEEK
Terminal
Spring

OSR1813EB-4.5TB0.7W8A-R

Sound Pressure Level	[dB]	94 ± 3 [0.7W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	500 ~ 10000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2.8

Dimensions [size : 18 X 13 X 4.5 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker
OSR2011E Series



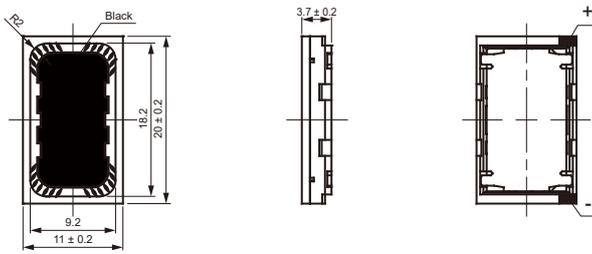
- Frame
PBT
- Cone
PEEK
- Terminal
Solder Pad

OSR2011E-3.7TB1.5W8A

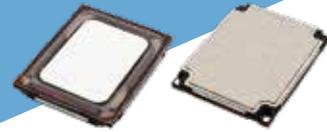
Sound Pressure Level	[dB]	101 ± 3 [1.5W / 10cm / 1cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	1.5
Max Input Power	[W]	1.7
Resonant Frequency (F0)	[Hz]	1050
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 20 X 11 X 3.7 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker
OSR2016E Series



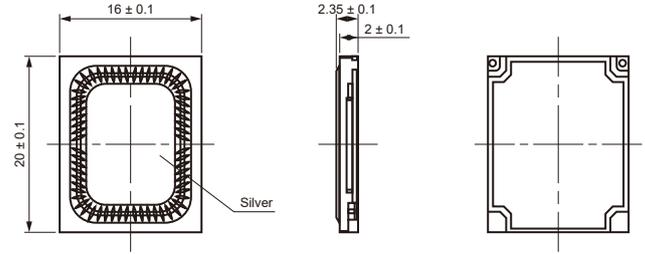
- Frame
Plastic
- Cone
PEEK
- Terminal
Solder Pad

OSR2016E-2.4TS1.0W8A-1

Sound Pressure Level	[dB]	94 ± 3 [1W / 10cm / 2.5cc box]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	600
Frequency Range	[Hz]	200 ~ 20000
Operating Temperature	[°C]	-25 ~ +55
Magnet		Nd-Fe-B
Weight	[g]	2.5

Dimensions [size : 20 X 16 X 2.4 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker
OSR2113E Series



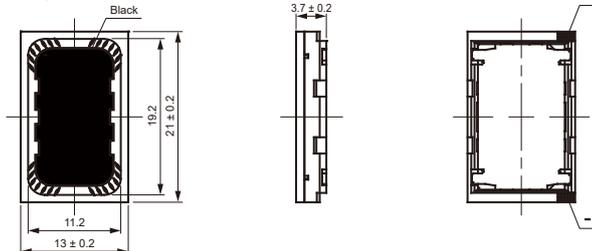
- Frame
PBT
- Cone
PEEK
- Terminal
Solder Pad

OSR2113E-3.7TB2.0W4A

Sound Pressure Level	[dB]	103.5 ± 3 [2W / 10cm / 1cc box]
Impedance	[ohm]	4
Rated Input Power	[W]	2
Max Input Power	[W]	2.2
Resonant Frequency (F0)	[Hz]	1050
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 21 X 13 X 3.7 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker
OSR2314E Series



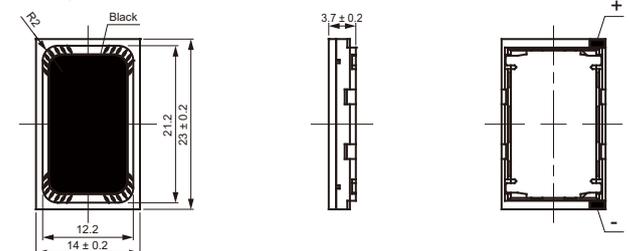
- Frame
PBT
- Cone
PEEK
- Terminal
Solder Pad

OSR2314E-3.7TB2.0W4A

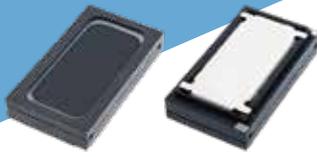
Sound Pressure Level	[dB]	104 ± 3 [2W / 10cm / 1cc box]
Impedance	[ohm]	4
Rated Input Power	[W]	2
Max Input Power	[W]	2.2
Resonant Frequency (F0)	[Hz]	1050
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : 23 X 14 X 3.7 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

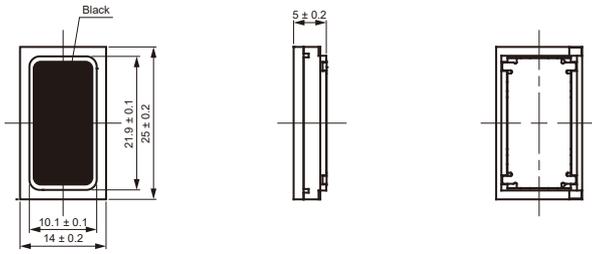
OSR2514EA Series

Frame
PPA
Cone
PEEK
Terminal
Solder Pad

		OSR2514EA-5.0TB2.0W4A	OSR2514EA-5.0TB2.0W4A-1
Sound Pressure Level	[dB]	100 ± 3 [2W / 10cm]	103 ± 3 [2W / 10cm]
Impedance	[ohm]	4	4
Rated Input Power	[W]	2	2
Max Input Power	[W]	2.2	2.2
Resonant Frequency (F0)	[Hz]	1000	950
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	2.5	2.5

Dimensions [size : 25 X 14 X 5 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

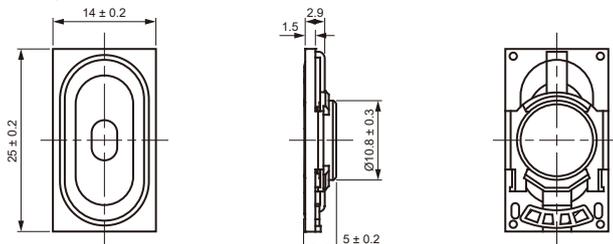
OSR2514E Series

Frame
Plastic
Cone
Paper
Terminal
Solder Pad

		OSR2514E-5.0P1.0W4A
Sound Pressure Level	[dB]	94 ± 3 [1W / 10cm]
Impedance	[ohm]	4
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 5000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2.4

Dimensions [size : 25 X 14 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

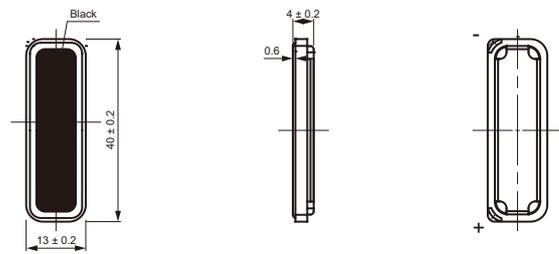
OSR4013E Series

Frame
PPA
Cone
PEEK
Terminal
Solder Pad

		OSR4013E-4.6TB2.0W4A
Sound Pressure Level	[dB]	98 ± 3 [2W / 10cm / 5cc box]
Impedance	[ohm]	4
Rated Input Power	[W]	2
Max Input Power	[W]	2.5
Resonant Frequency (F0)	[Hz]	550
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	7

Dimensions [size : 40 X 13 X 4.6 mm]

Unit: mm / Tolerance ±0.2mm



Micro Speaker

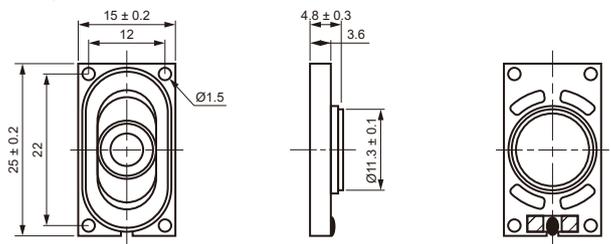
OSR2515E Series

Frame
ABS
Cone
Cloth
Terminal
Solder Pad

		OSR2515E-4.8C0.5W8A
Sound Pressure Level	[dB]	92 ± 3 [0.5W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	200 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	2.1

Dimensions [size : 25 X 15 X 4.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR3516E Series



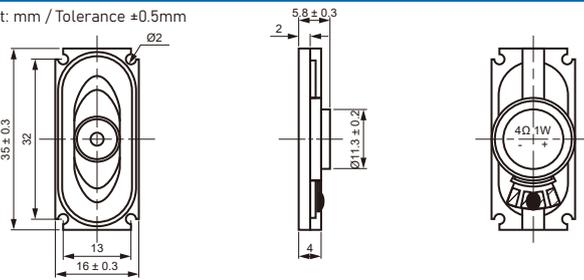
- Frame
PBT
- Cone
Cloth
- Terminal
Solder Pad

OSR3516E-5.8C1.0W4A

Sound Pressure Level	[dB]	83 ± 3 [1W / 50cm]
Impedance	[ohm]	4
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	67
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	3.5

Dimensions [size : 35 X 16 X 5.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR2720E Series



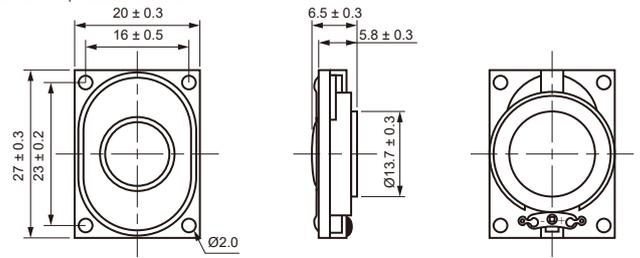
- Frame
ABS
- Cone
Cloth
- Terminal
Solder Pad

OSR2720E-6.5C1.0W8A

Sound Pressure Level	[dB]	80 ± 3 [1W / 50cm]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	750
Frequency Range	[Hz]	500 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	4.5

Dimensions [size : 27 X 20 X 6.5 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR3520E Series



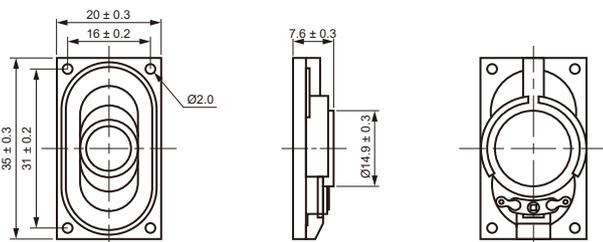
- Frame
ABS
- Cone
Cloth
- Terminal
Solder Pad

OSR3520E-7.6C2.0W8A **OSR3520E-7.6C1.0W8A**

Sound Pressure Level	[dB]	85 ± 3 [1W / 50cm]	85 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8	8
Rated Input Power	[W]	2	1
Max Input Power	[W]	3	2
Resonant Frequency (F0)	[Hz]	800	800
Frequency Range	[Hz]	F0 ~ 10000	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	6	6

Dimensions [size : 35 X 20 X 7.6 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR4020E Series



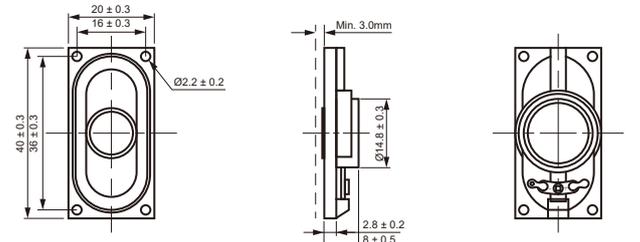
- Frame
Plastic
- Cone
Cloth
- Terminal
Solder Pad

OSR4020E-8.0C1.5W8A **OSR4020E-8.0C1.5W16A**

Sound Pressure Level	[dB]	88 ± 3 [0.1W / 10cm]	90 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8	16
Rated Input Power	[W]	1.5	1.5
Max Input Power	[W]	3	3
Resonant Frequency (F0)	[Hz]	550	550
Frequency Range	[Hz]	200 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	7.6	7.6

Dimensions [size : 40 X 20 X 8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

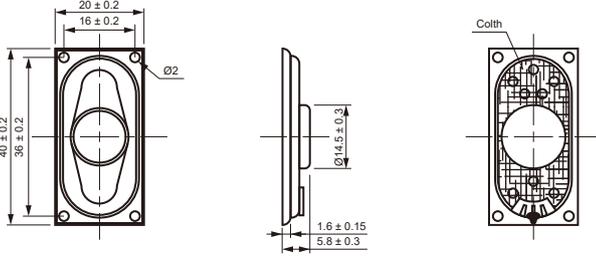
OSR4020E Series

Frame
Metal
Cone
Cloth
Terminal
Solder Pad

		OSR4020E-5.8C2.0W4M	OSR4020E-5.8C2.0W8M
Sound Pressure Level	[dB]	91 ± 3 [0.1W / 10cm]	91 ± 3 [0.1W / 10cm]
Impedance	[ohm]	4	8
Rated Input Power	[W]	2	2
Max Input Power	[W]	3	3
Resonant Frequency (F0)	[Hz]	600	600
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	7.6	7.6

Dimensions [size : 40 X 20 X 5.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

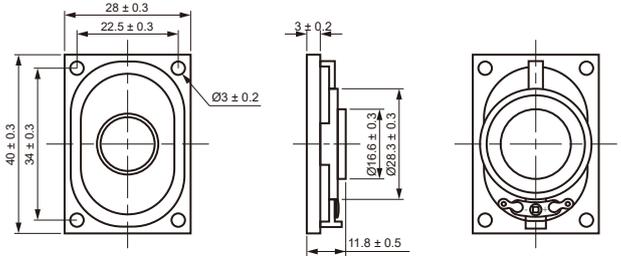
OSR4028E Series

Frame
ABS
Cone
Paper
Terminal
Solder Pad

		OSR4028E-11.8P1.0W8A	OSR4028E-12P2.0W8A
Sound Pressure Level	[dB]	85 ± 3 [1W / 50cm]	85 ± 3 [1W / 50cm]
Impedance	[ohm]	8	8
Rated Input Power	[W]	1	2
Max Input Power	[W]	1.5	3
Resonant Frequency (F0)	[Hz]	550	500
Frequency Range	[Hz]	F0 ~ 20000	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Magnet		Nd-Fe-B	Nd-Fe-B
Weight	[g]	15	15

Dimensions [size : 40 X 28 X 11.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

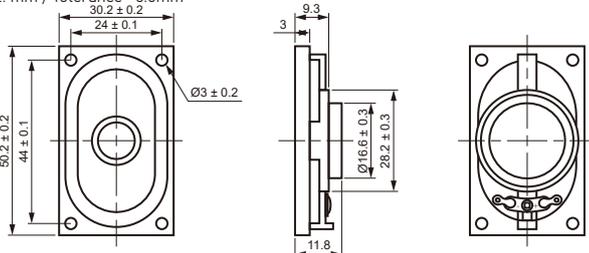
OSR5030E Series

Frame
PBT
Cone
Paper
Terminal
Solder Pad

		OSR5030E-11.8P2.0W8A
Sound Pressure Level	[dB]	85 ± 3 [1W / 50cm]
Impedance	[ohm]	8
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +50
Magnet		Nd-Fe-B
Weight	[g]	15

Dimensions [size : 50.2 X 30.2 X 11.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

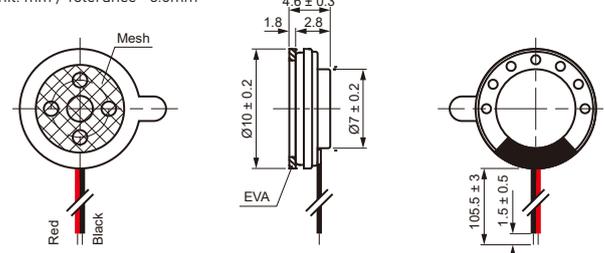
OSR10R Series

Frame
Metal
Cone
PET
Terminal
Wire

		OSR10R-4.6F0.3W8M-W
Sound Pressure Level	[dB]	81 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.3
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	1300
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-30 ~ +80
Magnet		Nd-Fe-B
Weight	[g]	0.8

Dimensions [size : Ø10 X 4.6 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR15R Series



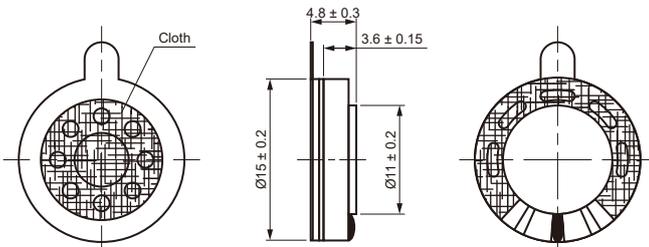
- Frame
PBT
- Cone
PET
- Terminal
Solder Pad

OSR15R-4.8F1.2W8A

Sound Pressure Level	[dB]	85 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	1.2
Max Input Power	[W]	1.8
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : Ø15 X 4.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR16R Series



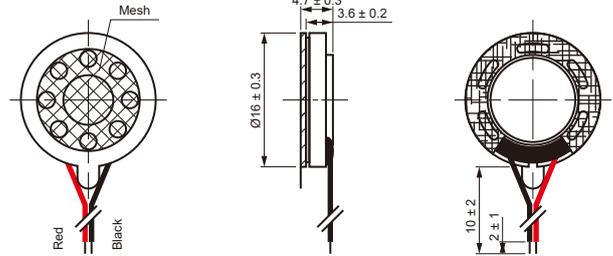
- Frame
Plastic
- Cone
PET
- Terminal
Wire

OSR16R-4.7F0.8W8A-W

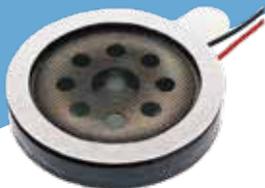
Sound Pressure Level	[dB]	89 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.8
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	1.5

Dimensions [size : Ø16 X 4.7 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR18R Series



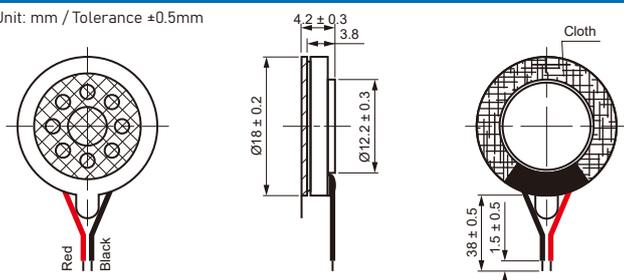
- Frame
PBT
- Cone
PET
- Terminal
Wire

OSR18R-4.2F0.7W8A-W

Sound Pressure Level	[dB]	91 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2

Dimensions [size : Ø18 X 4.2 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR20R Series



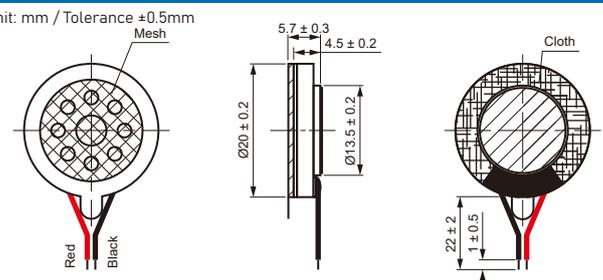
- Frame
Plastic
- Cone
PEN
- Terminal
Wire

OSR20R-5.7F0.5W8A-W

Sound Pressure Level	[dB]	90 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.8
Resonant Frequency (F0)	[Hz]	750
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2.6

Dimensions [size : Ø20 X 5.7 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR28R Series

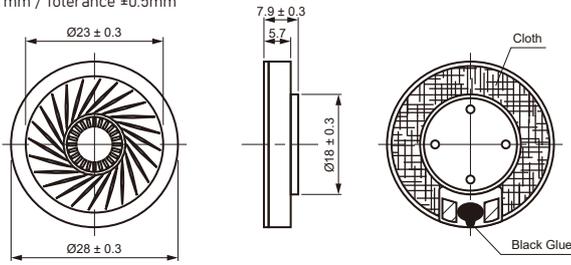
Frame
Plastic
Cone
Mylar
Terminal
Solder Pad

OSR28R-7.9T2.0W4A

Sound Pressure Level	[dB]	103 ± 3 [2W / 10cm]
Impedance	[ohm]	4
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	570
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	10

Dimensions [size : Ø28 X 7.9 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR1813V Series

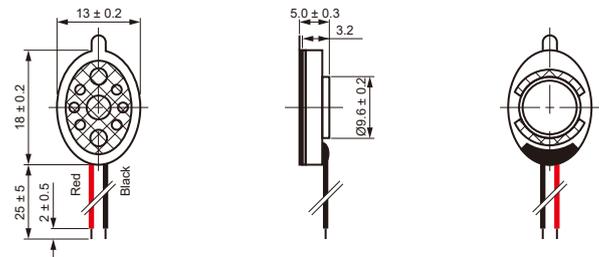
Frame
PPS
Cone
PEN
Terminal
Wire

OSR1813V-5.0F0.5W8A-W

Sound Pressure Level	[dB]	84 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.8
Resonant Frequency (F0)	[Hz]	900
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	2.5

Dimensions [size : 18 X 13 X 5 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR3020V Series

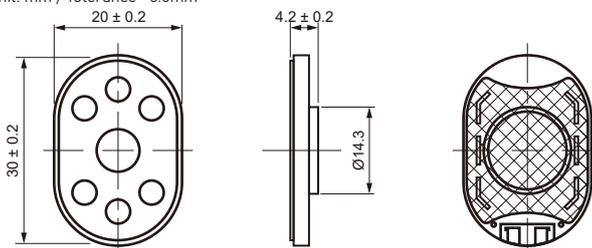
Frame
PBT
Cone
PEN
Terminal
Solder Pad

OSR3020V-4.2M1.0W8A

Sound Pressure Level	[dB]	100 ± 3 [1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.2
Resonant Frequency (F0)	[Hz]	800
Frequency Range	[Hz]	500 ~ 10000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	3

Dimensions [size : 30 X 20 X 4.2 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR1313S Series

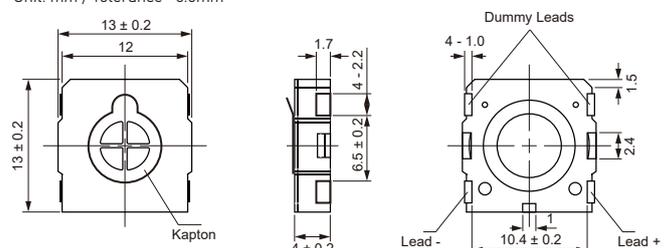
Frame
LCP
Cone
PI
Terminal
SMT

OSR1313S-4.0A0.7W8A-D

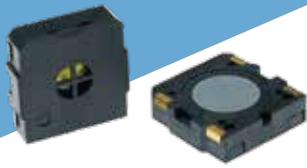
Sound Pressure Level	[dB]	88 ± 3 [0.7W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.7
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +85
Magnet		SmCo
Weight	[g]	1.1

Dimensions [size : 13 X 13 X 4 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR1515S Series



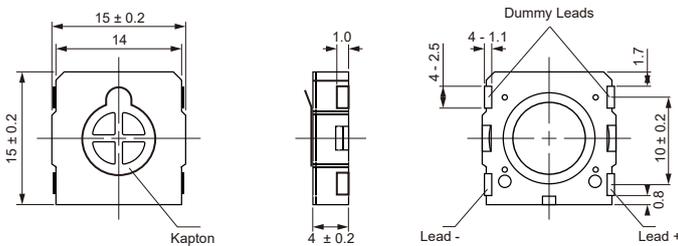
- Frame LCP
- Cone PI
- Terminal SMT

OSR1515S-4.0A0.5W8A-D

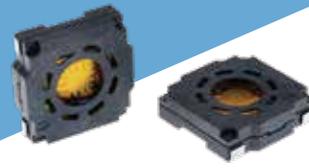
Sound Pressure Level	[dB]	87 ± 3 [0.5W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.5
Max Input Power	[W]	0.8
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +85
Magnet		SmCo
Weight	[g]	1.5

Dimensions [size : 15 X 15 X 4 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR1818S Series



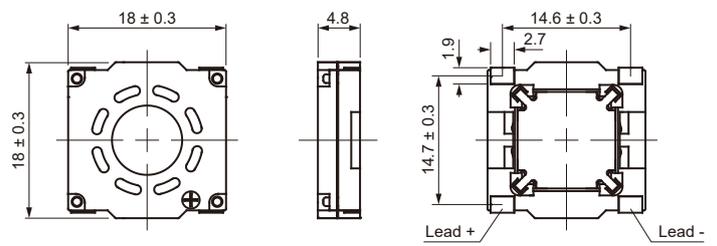
- Frame LCP
- Cone PI
- Terminal SMT

OSR1818S-4.8A1.0W8A-D

Sound Pressure Level	[dB]	95 ± 3 [0.5W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	1000
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-40 ~ +85
Magnet		SmCo
Weight	[g]	3

Dimensions [size : 18 X 18 X 4.8 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR2020S Series



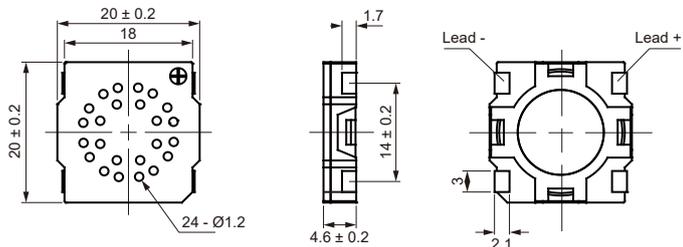
- Frame LCP
- Cone PI
- Terminal SMT

OSR2020S-4.5A0.8W8A-D

Sound Pressure Level	[dB]	90 ± 3 [0.8W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.8
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-40 ~ +85
Magnet		SmCo
Weight	[g]	3

Dimensions [size : 20 X 20 X 4.6 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker
OSR15R Series



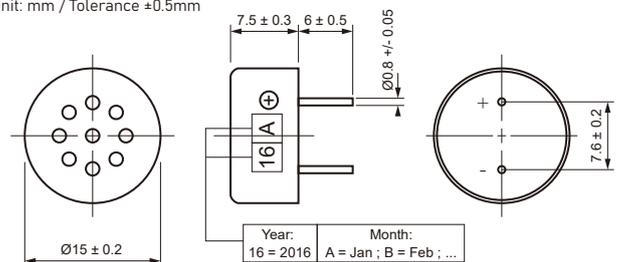
- Frame PBT
- Cone PET
- Terminal Pin

OSR15R-7.5A0.3W8A-P

Sound Pressure Level	[dB]	90 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.3
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	2000
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	2

Dimensions [size : Ø15 X 7.5 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR23R Series

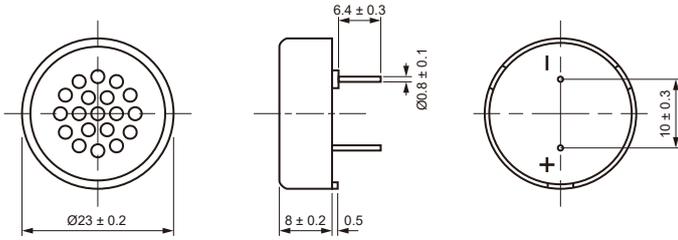
Frame
ABS
Cone
PEN
Terminal
Pin

OSR23R-8.5A0.1W8A-P

Sound Pressure Level	[dB]	85 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.1
Max Input Power	[W]	0.15
Resonant Frequency (F0)	[Hz]	1500
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	3.5

Dimensions [size : Ø23 X 8.5 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR30R Series

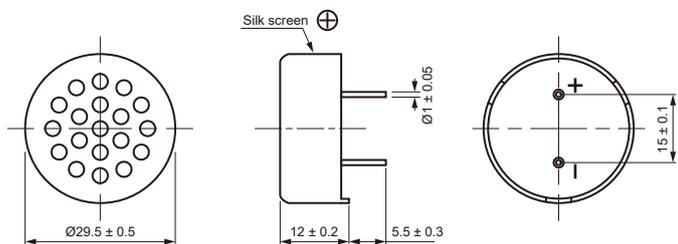
Frame
PPO + Glass Fiber
Cone
PET
Terminal
Pin

OSR30R-12A0.1W8A-P

Sound Pressure Level	[dB]	88 ± 3 [0.1W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.1
Max Input Power	[W]	0.15
Resonant Frequency (F0)	[Hz]	1200
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	8.5

Dimensions [size : Ø29.5 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR23H Series

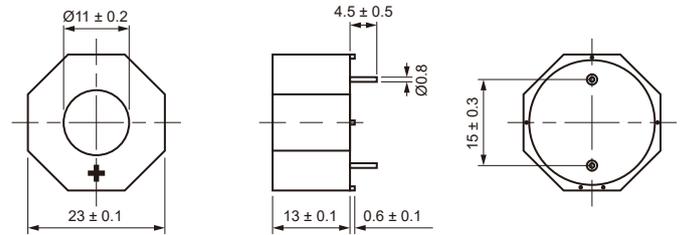
Frame
PBT
Cone
PET
Terminal
Pin

OSR23H-13A0.25W8A-P

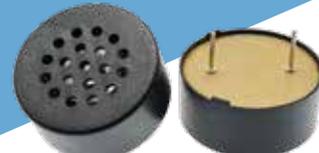
Sound Pressure Level	[dB]	90 ± 3 [0.25W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	325
Frequency Range	[Hz]	1000 ~ 4000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	6

Dimensions [size : 23 X 23 X 13.6 mm]

Unit: mm / Tolerance ±0.5mm



Micro Speaker

OSR32R Series

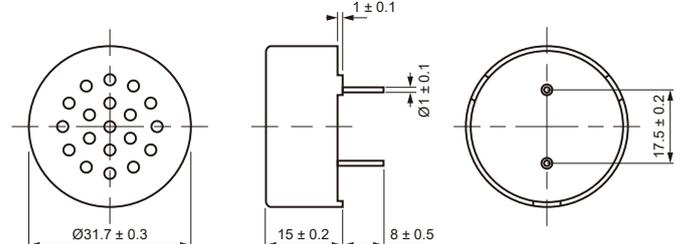
Frame
PPO
Cone
PET
Terminal
Pin

OSR32R-14.5A0.2W8A-P

Sound Pressure Level	[dB]	83 ± 3 [0.2W / 10cm]
Impedance	[ohm]	8
Rated Input Power	[W]	0.2
Max Input Power	[W]	0.3
Resonant Frequency (F0)	[Hz]	1200
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Ferrite
Weight	[g]	11

Dimensions [size : Ø31.7 X 15 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker 16

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (W)	Max. Input Power (W)	Sound Pressure Level (dB)	Resonant Frequency (F0)(Hz)	Page No.
OSS01-50-18A1.0W8-T	Ø50	18.5	8	1	2	97 [0.1W/0.1M]	350	97
OSS02-36-3A0.1W50-P	Ø35.8	3.8	50	0.1	0.2	95 [0.1W/0.1M]	500	97
OSS03-2013-4A0.8W8-C	20x13	4.9	8	0.8	1	93 [1W/0.1M]	1300	98
OSS04-27-5A0.8W8-W	Ø27	4.9	8	0.8	1	90 [0.8W/0.1M]	850	98
OSS05-42-13A1.0W47-C	Ø42	13.3	50	1	1.5	85 [0.3W/0.5M]	560	98
OSS07-77-29A3.0W3	Ø77	29	3	3	5	103 [0.1W/0.1M]	1000	98
OSS13-42-13A0.25W100-P	Ø42	13	100	0.25	0.5	70 [0.25W/0.5M]	1200	99
OSS15-40A1.0W8	40x40	6	8	1	1.5	88 [0.1W/0.1M]	630	99
OSS18-4340-10A1.0W8-T	42.5x39.6	40	8	1	1.5	88 [0.1W/0.1M]	600	99
OSS19-5723-14A2.0W8-C	57.5x23	14.9	8	2	3	98 [1W/0.1M]	700	99
OSS24-28-13A3.0W8-W	28x28	13.4	8	3	4	89 [1W/0.1M]	750	100
OSS33-8031-18A2.0W8-C	80x31	18	8	2	3	100 [2W/0.1M]	650	100
OSS37-57-27A4.0W8	Ø57	27	8	4	5	97 [0.1W/0.1M]	1100	100
OSS41-1712-9A1.0W8-C	17.1x12.7	9.2	8	1	1.2	97 [1W/0.1M]	1250	100

Customise Speaker OSS01 Series



Frame

ABS

Cone

PET

Terminal

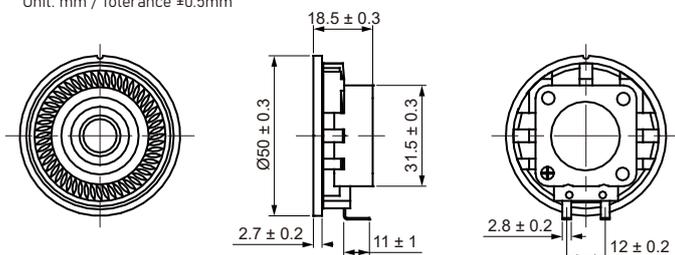
Plate

OSS01-50-18A1.0W8-T

Sound Pressure Level	[dB]	97 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	2
Resonant Frequency (F0)	[Hz]	350
Frequency Range	[Hz]	F0 ~ 10000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Ferrite
Weight	[g]	46

Dimensions [size : Ø50 X 18.5 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker OSS02 Series



Frame

PBT

Cone

PEI

Terminal

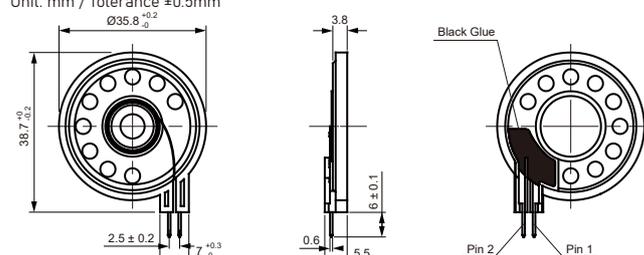
Pin

OSS02-36-3A0.1W50-P

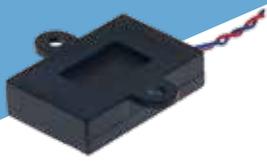
Sound Pressure Level	[dB]	95 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	50
Rated Input Power	[W]	0.1
Max Input Power	[W]	0.2
Resonant Frequency (F0)	[Hz]	500
Frequency Range	[Hz]	250 ~ 6700
Operating Temperature	[°C]	-30 ~ +75
Magnet		Nd-Fe-B
Weight	[g]	6.6

Dimensions [size : Ø35.8 X 3.8 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker OSS03 Series



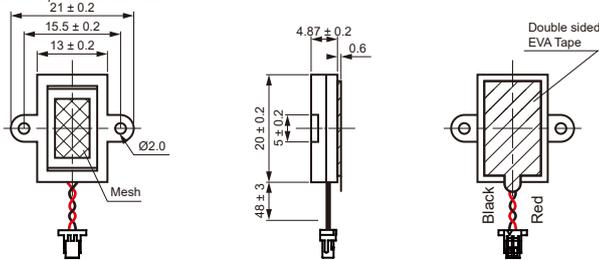
Frame
PPA
Cone
PEEK
Terminal
Connector

OSS03-2013-4A0.8W8-C

Sound Pressure Level	[dB]	93 ± 3 [1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.8
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	1300
Frequency Range	[Hz]	500 ~ 20000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	2.5

Dimensions [size : 20 X 13 X 4.9 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker OSS04 Series



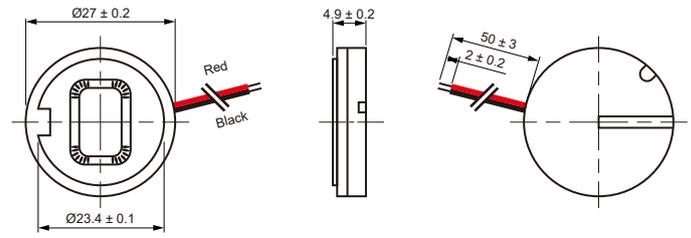
Frame
PC + ABS
Cone
PEEK
Terminal
Wire

OSS04-27-5A0.8W8-W

Sound Pressure Level	[dB]	90 ± 3 [0.8W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	0.8
Max Input Power	[W]	1
Resonant Frequency (F0)	[Hz]	850
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-30 ~ +70
Magnet		Nd-Fe-B
Weight	[g]	3

Dimensions [size : Ø27 X 4.9 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker OSS05 Series



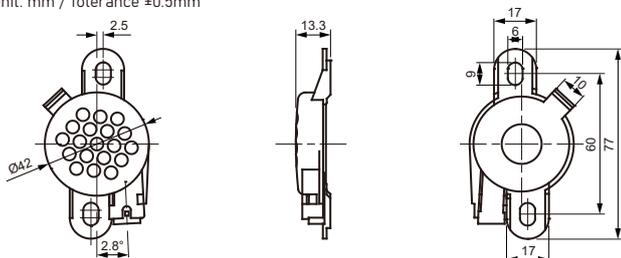
Frame
PP
Cone
PEI
Terminal
Connector

OSS05-42-13A1.0W47-C

Sound Pressure Level	[dB]	85 ± 3 [0.3W / 0.5M]
Impedance	[ohm]	50
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	560
Frequency Range	[Hz]	500 ~ 2000
Operating Temperature	[°C]	-40 ~ +85
Magnet		Nd-Fe-B
Weight	[g]	15

Dimensions [size : Ø42 X 13.3 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker OSS07 Series



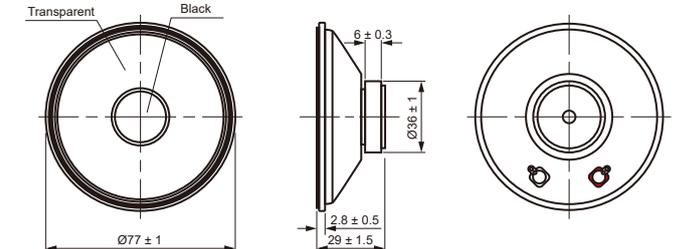
Frame
Metal
Cone
PET
Terminal
Solder Pad

OSS07-77-29A3.0W3

Sound Pressure Level	[dB]	103 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	3
Rated Input Power	[W]	3
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	1000
Frequency Range	[Hz]	F0 ~ 5000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	94

Dimensions [size : Ø77 X 29 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS13 Series



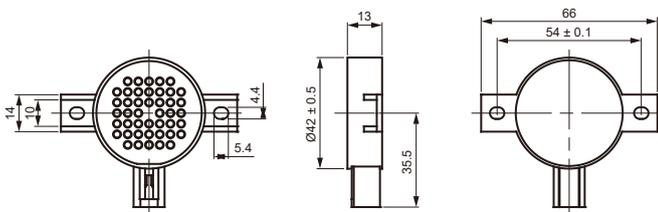
- Frame
PPE + PS
- Cone
PEI
- Terminal
Connector

OSS13-42-13A0.25W100-P

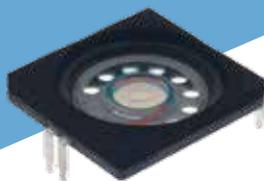
Sound Pressure Level	[dB]	70 ± 3 [0.25W / 0.5M]
Impedance	[ohm]	100
Rated Input Power	[W]	0.25
Max Input Power	[W]	0.5
Resonant Frequency (F0)	[Hz]	1200
Frequency Range	[Hz]	1200 ~ 5000
Operating Temperature	[°C]	-40 ~ +120
Magnet		Nd-Fe-B
Weight	[g]	16.5

Dimensions [size : Ø42 X 13 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS18 Series



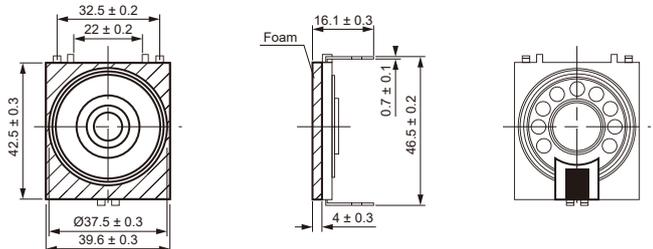
- Frame
Noryl
- Cone
PEI
- Terminal
Plate

OSS18-4340-10A1.0W8-T

Sound Pressure Level	[dB]	93 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	600
Frequency Range	[Hz]	F0 ~ 5000
Operating Temperature	[°C]	-40 ~ +85
Magnet		Nd-Fe-B
Weight	[g]	9

Dimensions [size : Ø42.5 X 39.6 X 40 mm]

Unit: mm / Tolerance ±0.3mm



Customise Speaker
OSS15 Series



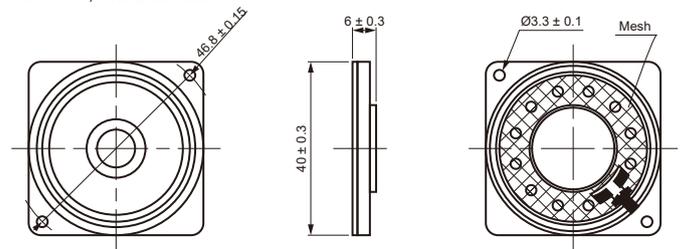
- Frame
Metal
- Cone
PET
- Terminal
Solder Pad

OSS15-40A1.0W8

Sound Pressure Level	[dB]	88 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.5
Resonant Frequency (F0)	[Hz]	630
Frequency Range	[Hz]	400 ~ 12000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	12

Dimensions [size : 40 X 40 X 6 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS19 Series



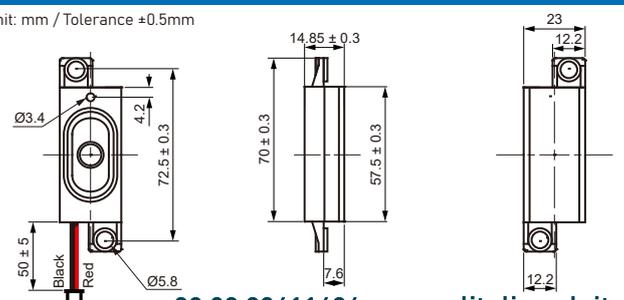
- Frame
ABS
- Cone
Cloth
- Terminal
Connector

OSS19-5723-14A2.0W8-C

Sound Pressure Level	[dB]	98 ± 3 [1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	700
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-25 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	29

Dimensions [size : 57.5 X 23 X 14.9 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS24 Series



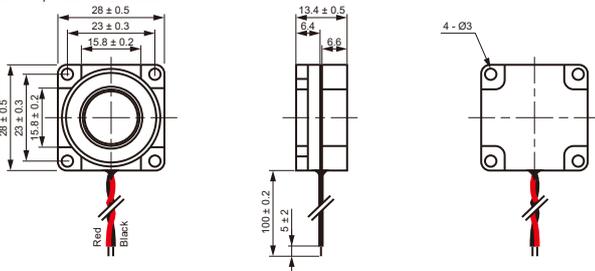
- Frame
ABS
- Cone
Mylar
- Terminal
Wire

OSS24-28-13A3.0W8-W

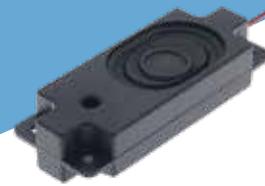
Sound Pressure Level	[dB]	89 ± 3 [1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	3
Max Input Power	[W]	4
Resonant Frequency (F0)	[Hz]	750
Frequency Range	[Hz]	F0 ~ 6000
Operating Temperature	[°C]	-20 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	19

Dimensions [size : 28 X 28 X 13.4 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS33 Series



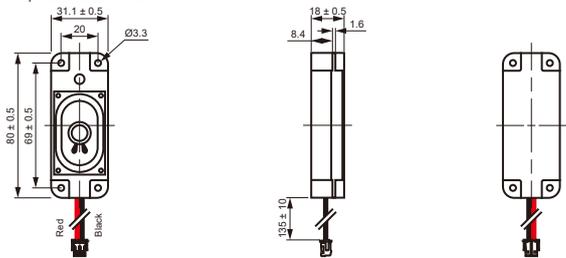
- Frame
ABS
- Cone
Cloth
- Terminal
Connector

OSS33-8031-18A2.0W8-C

Sound Pressure Level	[dB]	100 ± 3 [2W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	2
Max Input Power	[W]	3
Resonant Frequency (F0)	[Hz]	650
Frequency Range	[Hz]	200 ~ 20000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	55

Dimensions [size : 80 X 31 X 18 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS37 Series



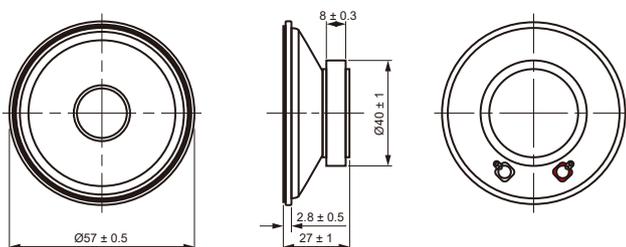
- Frame
Metal
- Cone
PET
- Terminal
Solder Pad

OSS37-57-27A4.0W8

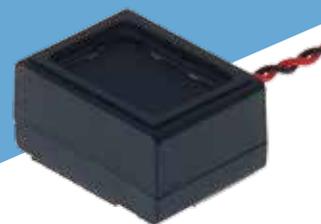
Sound Pressure Level	[dB]	97 ± 3 [0.1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	4
Max Input Power	[W]	5
Resonant Frequency (F0)	[Hz]	1100
Frequency Range	[Hz]	F0 ~ 15000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Ferrite
Weight	[g]	90

Dimensions [size : Ø57 X 27 mm]

Unit: mm / Tolerance ±0.5mm



Customise Speaker
OSS41 Series



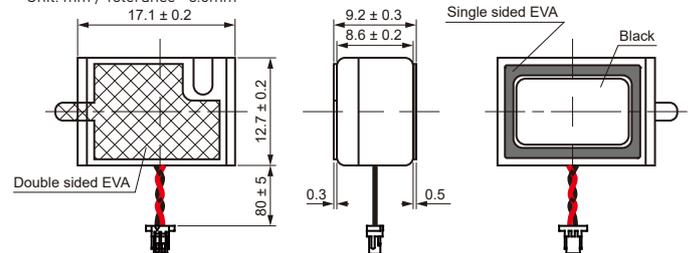
- Frame
ABS
- Cone
PEEK
- Terminal
Connector

OSS41-1712-9A1.0W8-C

Sound Pressure Level	[dB]	97 ± 3 [1W / 0.1M]
Impedance	[ohm]	8
Rated Input Power	[W]	1
Max Input Power	[W]	1.2
Resonant Frequency (F0)	[Hz]	1250
Frequency Range	[Hz]	F0 ~ 20000
Operating Temperature	[°C]	-30 ~ +60
Magnet		Nd-Fe-B
Weight	[g]	3

Dimensions [size : 17.1 X 12.7 X 9.2 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver 17

	Size (mm)	Height (mm)	Impedance (ohm)	Rated Input Power (mW)	Sound Pressure Level (dB)	Frequency Range (Hz)	Hearing Aid Compatible (H.A.C.)	Page No.
DR1504-P32	Ø15	3.7	32	10	115 [IEC318]	300 ~ 3400	Yes	102
DR2004-M150HW	Ø20	4	150	1	90 [IEC318]	300 ~ 3400	Yes	102
DR2004A-P150HW	Ø20	3.9	150	1	92 [IEC318]	300 ~ 3400	Yes	102
DR2004A-P150W	Ø20	3.9	150	1	92 [IEC318]	300 ~ 3400	No	102
DR2807-P150HW	Ø28	7.2	150	10	93 [IEC318]	300 ~ 3400	Yes	102
DR2807-P150W	Ø28	7.2	150	10	93 [IEC318]	300 ~ 3400	No	102
DR3111-P150HT	Ø31	11	150	1	93 [IEC318]	300 ~ 3400	Yes	103
DR3111-X406	Ø31	11	150	1	93 [IEC318]	300 ~ 7000	No	103
DR3112-M300HT	Ø31	12	300	1	93 [IEC318]	300 ~ 3400	Yes	103
DR3112-M300T	Ø31	12	300	1	93 [IEC318]	300 ~ 3400	No	103
DR3516B-M150HW	Ø35	16	150	30	95 [IEC318]	300 ~ 3400	Yes	103
DR3516B-M150E	Ø35	16	150	30	95 [IEC318]	300 ~ 3400	No	103
DR3518-M150HT	Ø35	17.5	150	10	96 [IEC318]	300 ~ 3400	Yes	103
DR3518-M150T	Ø35	17.5	150	10	96 [IEC318]	300 ~ 3400	No	103
DR3819-P300H	Ø38	18.8	300	1	97 [IEC318]	300 ~ 3400	Yes	104
DR3819-P300	Ø38	18.8	300	1	97 [IEC318]	300 ~ 3400	No	104
DR3821-P150HT	Ø38	21	150	1	97 [IEC318]	300 ~ 3400	Yes	104
DR3821-P150T	Ø38	21	150	1	97 [IEC318]	300 ~ 3400	No	104
DR4521-M150HE(VR60)	Ø45.5	21	150	30	100 [IEC318]	300 ~ 3400	Yes	104
DR4521-M150E(VR60)	Ø45.5	21	150	30	100 [IEC318]	300 ~ 3400	No	104
DR4620-M150HE	Ø46	20.3	150	30	98 [IEC318]	300 ~ 3400	Yes	104
DR4620-M150E	Ø46	20.3	150	30	98 [IEC318]	300 ~ 3400	No	104

Dynamic Receiver
DR1504 Series



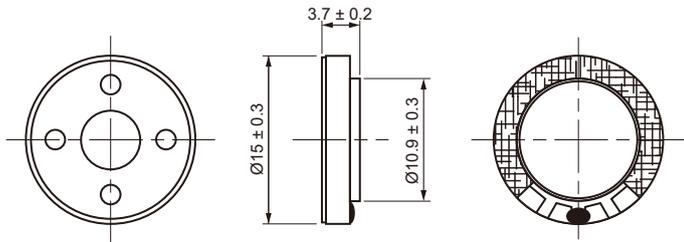
Housing
PBT & Metal
Terminal
Solder Pad

DR1504-P32

Sound Pressure Level	[dB]	115 ± 3 [IEC318 Coupler]
Impedance	[ohm]	32
Rated Input Power	[mW]	10
Max Input Power	[mW]	15
Frequency Range	[Hz]	300 ~ 3400
Hearing Aid Compatible		No
Operating Temperature	[°C]	-30 ~ +70
Weight	[g]	2

Dimensions [size : Ø15 X 3.7 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver
DR2004A Series



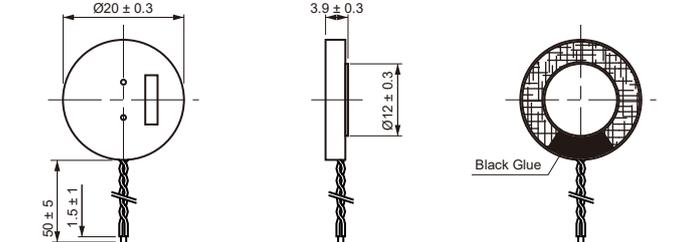
Housing
ABS
Terminal
Wire

DR2004A-P150HW DR2004A-P150W

Sound Pressure Level	[dB]	92 ± 3 [IEC318 Coupler]	92 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	1	1
Max Input Power	[mW]	10	10
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	3	3

Dimensions [size : Ø20 X 3.9 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver
DR2004 Series



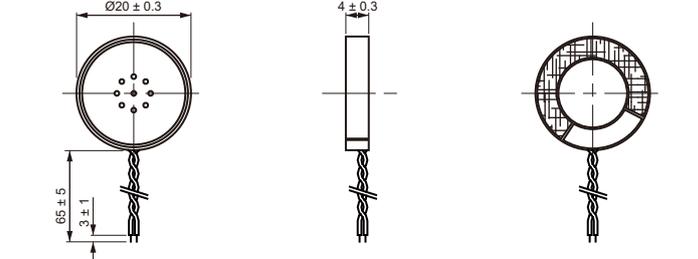
Housing
ABS & Metal
Terminal
Wire

DR2004-M150HW

Sound Pressure Level	[dB]	90 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150
Rated Input Power	[mW]	1
Max Input Power	[mW]	10
Frequency Range	[Hz]	300 ~ 3400
Hearing Aid Compatible		Yes
Operating Temperature	[°C]	-20 ~ +60
Weight	[g]	4

Dimensions [size : Ø20 X 4 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver
DR2807 Series



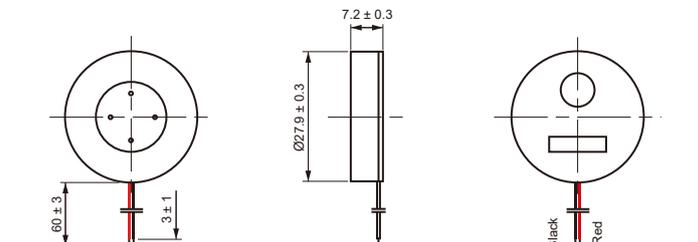
Housing
ABS
Terminal
Wire

DR2807-P150HW DR2807-P150W

Sound Pressure Level	[dB]	93 ± 3 [IEC318 Coupler]	93 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	10	10
Max Input Power	[mW]	30	30
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	4.5	4.5

Dimensions [size : Ø28 X 7.2 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3111 Series



Housing

ABS

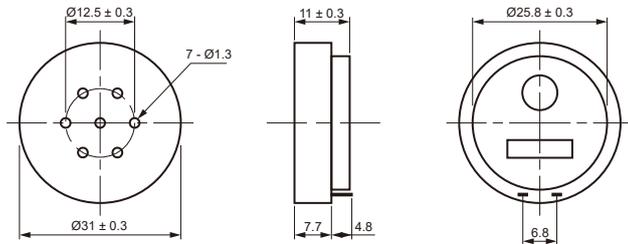
Terminal

Plate

		DR3111-P150HT	DR3111-X406
Sound Pressure Level	[dB]	93 ± 3 [IEC318 Coupler]	93 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	1	1
Max Input Power	[mW]	10	10
Frequency Range	[Hz]	300 ~ 3400	300 ~ 7000
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	15	15

Dimensions [size : Ø31 X 11 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3112 Series



Housing

ABS & Metal

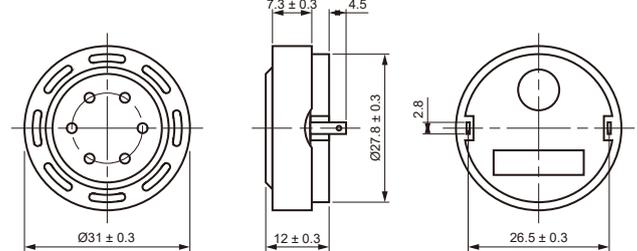
Terminal

Plate

		DR3112-M300HT	DR3112-M300T
Sound Pressure Level	[dB]	93 ± 3 [IEC318 Coupler]	93 ± 3 [IEC318 Coupler]
Impedance	[ohm]	300	300
Rated Input Power	[mW]	1	1
Max Input Power	[mW]	10	10
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	20	20

Dimensions [size : Ø31 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3516B Series



Housing

ABS & Metal

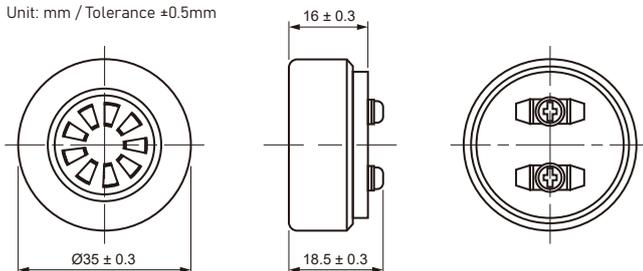
Terminal

Screw

		DR3516B-M150HE	DR3516B-M150E
Sound Pressure Level	[dB]	95 ± 3 [IEC318 Coupler]	95 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	30	30
Max Input Power	[mW]	50	50
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	35	35

Dimensions [size : Ø35 X 16 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3518 Series



Housing

ABS & Metal

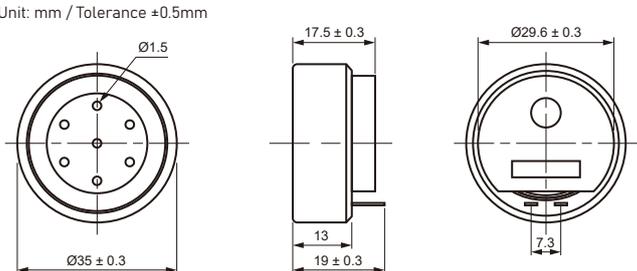
Terminal

Plate

		DR3518-M150HT	DR3518-M150T
Sound Pressure Level	[dB]	96 ± 3 [IEC318 Coupler]	96 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	10	10
Max Input Power	[mW]	30	30
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	30	30

Dimensions [size : Ø35 X 17.5 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3819 Series



Housing

ABS

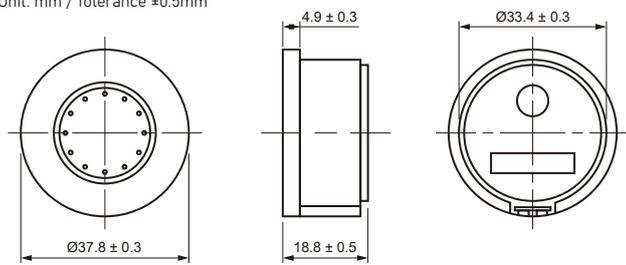
Terminal

Solder Pad

		DR3819-P300H	DR3819-P300
Sound Pressure Level	[dB]	97 ± 3 [IEC318 Coupler]	97 ± 3 [IEC318 Coupler]
Impedance	[ohm]	300	300
Rated Input Power	[mW]	1	1
Max Input Power	[mW]	10	10
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	40	40

Dimensions [size : Ø38 X 18.8 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR3821 Series



Housing

ABS

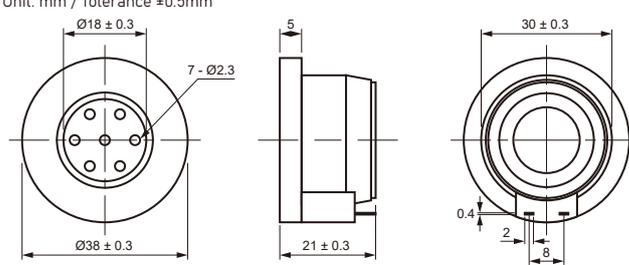
Terminal

Plate

		DR3821-P150HT	DR3821-P150T
Sound Pressure Level	[dB]	97 ± 3 [IEC318 Coupler]	97 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	1	1
Max Input Power	[mW]	10	10
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	36	36

Dimensions [size : Ø38 X 21 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR4521 Series



Housing

ABS & Metal

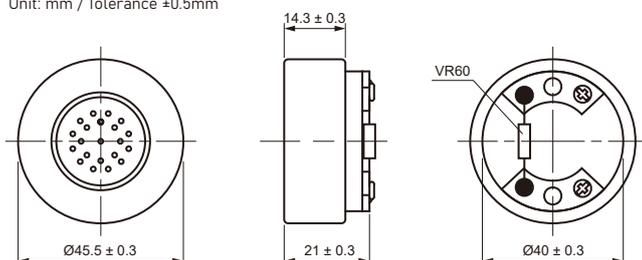
Terminal

Screw

		DR4521-M150HE(VR60)	DR4521-M150E(VR60)
Sound Pressure Level	[dB]	100 ± 3 [IEC318 Coupler]	100 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	30	30
Max Input Power	[mW]	50	50
Frequency Range	[Hz]	300 ~ 3400	300 ~ 3400
Hearing Aid Compatible		Yes	No
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	70	70

Dimensions [size : Ø45.5 X 21 mm]

Unit: mm / Tolerance ±0.5mm



Dynamic Receiver DR4620 Series



Housing

ABS & Metal

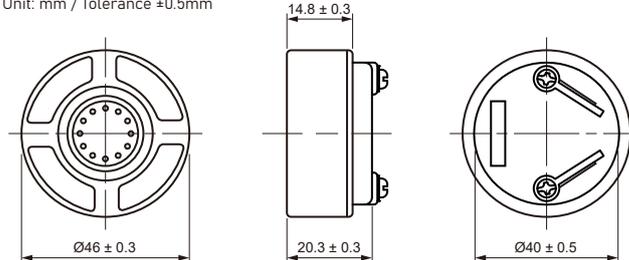
Terminal

Screw

		DR4620-M150HE	DR4620-M150E
Sound Pressure Level	[dB]	98 ± 3 [IEC318 Coupler]	98 ± 3 [IEC318 Coupler]
Impedance	[ohm]	150	150
Rated Input Power	[mW]	30	30
Max Input Power	[mW]	50	50
Frequency Range	[Hz]	700	700
Hearing Aid Compatible		300 ~ 3400	300 ~ 3400
Operating Temperature	[°C]	-20 ~ +60	-20 ~ +60
Weight	[g]	70	70

Dimensions [size : Ø46 X 20.3 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor

	Size (mm)	Height (mm)	Function	Sound Pressure Level (dB)	Sensitivity (dB)	Center Frequency (KHz)	Capacitance (pF)	Page No.
SU052S-TR40AS	5.2x5.2	1.4	Dual	97	-68	40	3800	106
SU010S-TR40PB	10x10	3.5	Dual	105	-75	40	12000	106
SU010SA-TR40PB	10x10	5.3	Dual	110	-70	40	2700	106
U010-TR40PBP	Ø9.8	7	Dual	108	-67	40	2200	106
U010-TR40ASP	Ø9.8	7	Dual	108	-67	40	2200	107
U012-TR40ABP	Ø12.6	9.5	Dual	115	-65	40	2100	107
U016-T25PBP	Ø16	12	Transmitter	110	Nil	25	2500	107
U016-TR40PBP	Ø16	12	Dual	115	-65	40	2200	107
U016-T25ASP	Ø16	12	Transmitter	110	Nil	25	2500	107
U016-TR40ASP	Ø16	12	Dual	123	-57	40	2400	107

Close Structure Ultrasonic Sensor

	Size (mm)	Height (mm)	Function	Sound Pressure Level (dB)	Sensitivity (dB)	Center Frequency (Hz)	Capacitance (pF)	Page No.
UC10-TR40ASP	Ø10	8	Dual	100	-78	40	1800	108
UC12G-TR40ABP	Ø12	9	Dual	100	-82	40	1800	108
UC14L-TR40ASP	Ø14.4	9	Dual	95	-74	40	1800	108
UC16-TR40ASP	Ø16	9	Dual	100	-75	40	1800	108
UC16L-TR40ABP	Ø16	12	Dual	95	-75	40	1800	109
UC18G-TR40ASP	Ø18	9	Dual	100	-80	40	1800	109
UC180-TR40ABP	Ø18	12	Dual	100	-70	40	1800	109
UC25-TR40ASP	Ø25	12	Dual	120	-90	40	2200	109

Ultrasonic Speaker

	Size (mm)	Height (mm)	Function	Sound Pressure Level (dB)	Resonant Frequency (KHz)	Rated Voltage (Vp-p)	Capacitance (pF)	Page No.
USM38-25	Ø38	12.5	Transmitter	90 / 30cm	25	9	100000	110
USM38-40	Ø38	12.5	Transmitter	100 / 20cm	40	9	100000	110
USL41-25	Ø41	14.5	Transmitter	90 / 30cm	25	9	100000	110
USL51-20	Ø51	18	Transmitter	95 / 30cm	20	9	100000	110
USM51E-20	Ø51	18	Transmitter	95 / 30cm	20	9	100000	110

Open Structure Ultrasonic Sensor

SU052S Series

Housing
Aluminum

Color
Silver

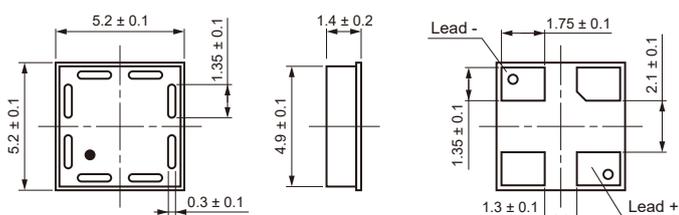
Terminal
SMT

SU052S-TR40AS

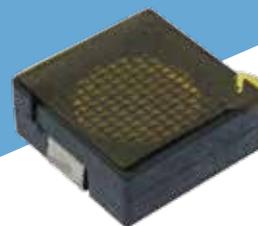
Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -68
Sound Pressure Level	[dB]	Min. 97 [6Vp-p / 15cm]
Capacitance	[pF]	3800
Input Voltage	[Vp-p]	Max. 10
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.1

Dimensions [size : 5.2 X 5.2 X 1.4 mm]

Unit: mm / Tolerance ±0.3mm



Open Structure Ultrasonic Sensor

SU010S Series

Housing
LCP

Color
Black

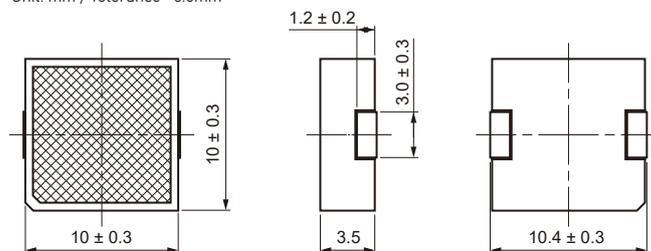
Terminal
SMT

SU010S-TR40PB

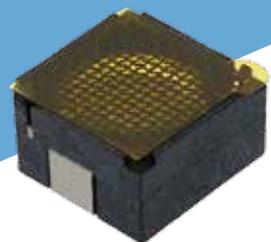
Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -75
Sound Pressure Level	[dB]	Min. 105 [6Vp-p / 15cm]
Capacitance	[pF]	12000
Input Voltage	[Vp-p]	Max. 84
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	0.7

Dimensions [size : 10 X 10 X 3.5 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor

SU010SA Series

Housing
LCP

Color
Black

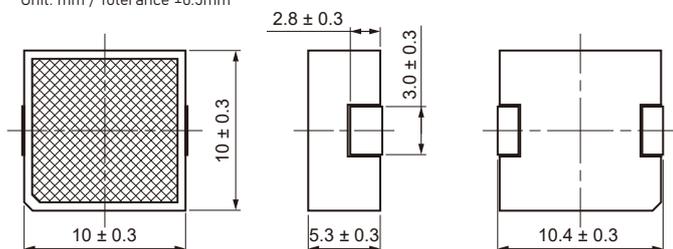
Terminal
SMT

SU010SA-TR40PB

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -70
Sound Pressure Level	[dB]	Min. 110 [20Vp-p / 30cm]
Capacitance	[pF]	2700
Input Voltage	[Vp-p]	Max. 85
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	0.8

Dimensions [size : 10 X 10 X 5.3 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor

U010 Series

Housing
ABS

Color
Black

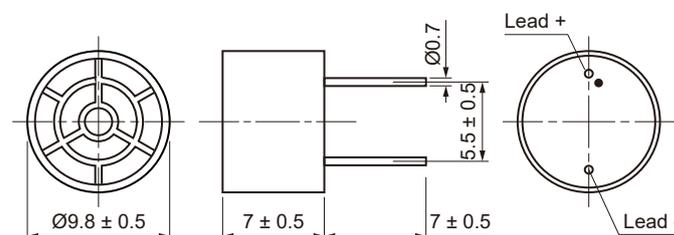
Terminal
Pin

U010-TR40BPB

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -67
Sound Pressure Level	[dB]	Min. 108 [28Vp-p / 30cm]
Capacitance	[pF]	2200
Input Voltage	[Vp-p]	Max. 113
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.6

Dimensions [size : Ø9.8 X 7 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor
U010 Series



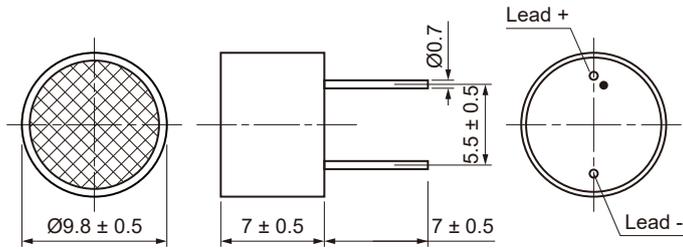
- Housing**
Aluminum
- Color**
Silver
- Terminal**
Pin

U010-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -67
Sound Pressure Level	[dB]	Min. 108 [28Vp-p / 30cm]
Capacitance	[pF]	2200
Input Voltage	[Vp-p]	Max. 113
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	0.6

Dimensions [size : Ø9.8 X 7 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor
U012 Series



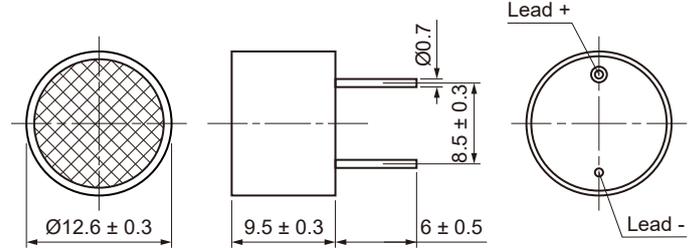
- Housing**
Aluminum
- Color**
Black
- Terminal**
Pin

U012-TR40BP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -65
Sound Pressure Level	[dB]	Min. 115 [28Vp-p / 30cm]
Capacitance	[pF]	2100
Input Voltage	[Vp-p]	Max. 84
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	1.6

Dimensions [size : Ø12.6 X 9.5 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor
U016 Series



- Housing**
ABS
- Color**
Black
- Terminal**
Pin

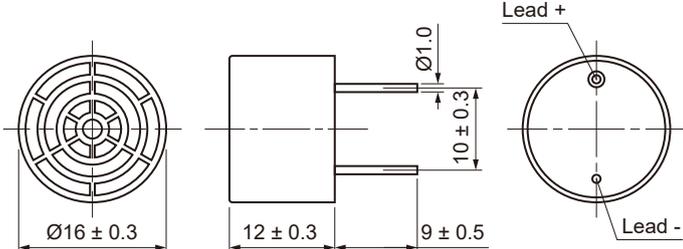
U016-T25PBP

U016-TR40PBP

Function		Transmitter	Dual
Center Frequency	[KHz]	25	40
Sensitivity For Receiver	[dB]	Nil	Min. -65
Sound Pressure Level	[dB]	Min. 110 [28Vp-p / 30cm]	Min. 115 [28Vp-p / 30cm]
Capacitance	[pF]	2500	2200
Input Voltage	[Vp-p]	Max. 56	Max. 56
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	1.8	1.8

Dimensions [size : Ø16 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Open Structure Ultrasonic Sensor
U016 Series



- Housing**
Aluminum
- Color**
Silver
- Terminal**
Pin

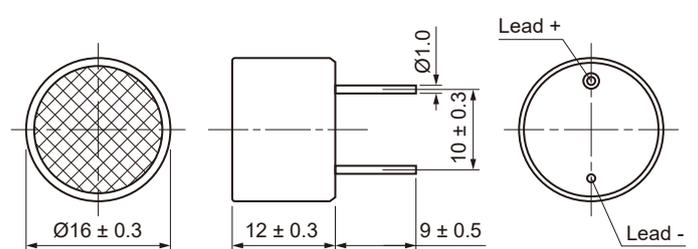
U016-T25ASP

U016-TR40ASP

Function		Transmitter	Dual
Center Frequency	[KHz]	25	40
Sensitivity For Receiver	[dB]	Nil	Min. -57
Sound Pressure Level	[dB]	Min. 110 [28Vp-p / 30cm]	Min. 123 [28Vp-p / 30cm]
Capacitance	[pF]	2500	2400
Input Voltage	[Vp-p]	Max. 56	Max. 56
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	2.5	2.5

Dimensions [size : Ø16 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor

UC10 Series

IP67



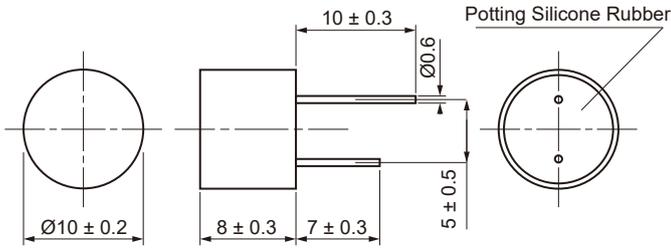
- Housing**
Aluminum
- Color**
Silver
- Terminal**
Pin

UC10-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -78
Sound Pressure Level	[dB]	Min. 100 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	1.5

Dimensions [size : Ø10 X 8 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor

UC12G Series

IP67



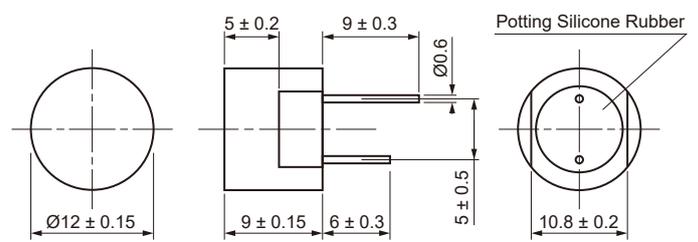
- Housing**
Aluminum
- Color**
Black
- Terminal**
Pin

UC12G-TR40ABP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -82
Sound Pressure Level	[dB]	Min. 100 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	2

Dimensions [size : Ø12 X 9 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor

UC14L Series

IP67



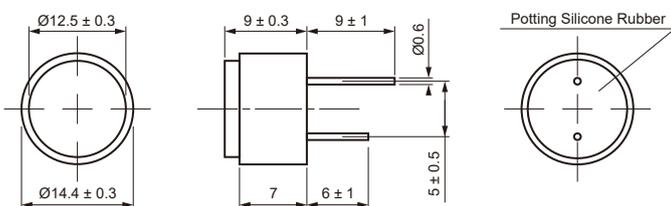
- Housing**
Aluminum
- Color**
Silver
- Terminal**
Pin

UC14L-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -74
Sound Pressure Level	[dB]	Min. 95 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-40 ~ +80
Weight	[g]	2.5

Dimensions [size : Ø14.4 X 9 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor

UC16 Series

IP67



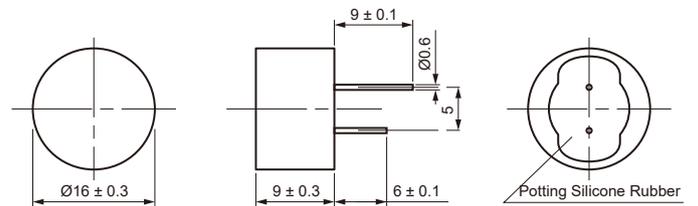
- Housing**
Aluminum
- Color**
Silver
- Terminal**
Pin

UC16-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -75
Sound Pressure Level	[dB]	Min. 100 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-40 ~ +80
Weight	[g]	3.5

Dimensions [size : Ø16 X 9 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor
UC16L Series

IP67



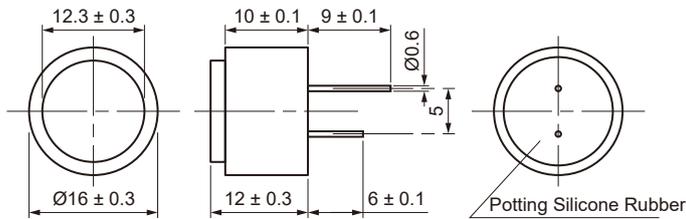
Housing
Aluminum
Color
Black
Terminal
Pin

UC16L-TR40ABP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -75
Sound Pressure Level	[dB]	Min. 95 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	3.5

Dimensions [size : Ø16 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor
UC18G Series

IP67



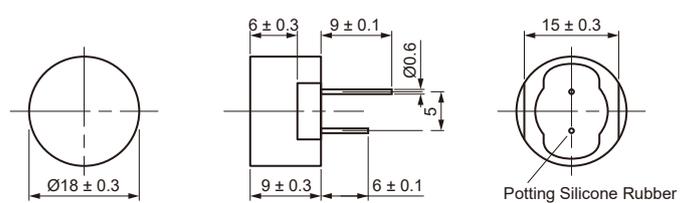
Housing
Aluminum
Color
Silver
Terminal
Pin

UC18G-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	Min. -80
Sound Pressure Level	[dB]	Min. 100 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	4

Dimensions [size : Ø18 X 9 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor
UC180 Series

IP67



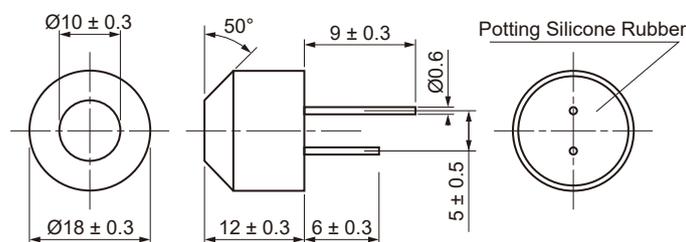
Housing
Aluminum
Color
Black
Terminal
Pin

UC180-TR40ABP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	-70
Sound Pressure Level	[dB]	Min. 100 [28Vp-p / 30cm]
Capacitance	[pF]	1800
Input Voltage	[Vp-p]	Max. 140
Operating Temperature	[°C]	-30 ~ +80
Weight	[g]	5

Dimensions [size : Ø18 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Close Structure Ultrasonic Sensor
UC25 Series

IP67



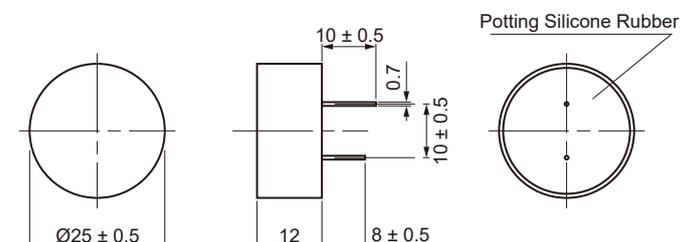
Housing
Aluminum
Color
Silver
Terminal
Pin

UC25-TR40ASP

Function		Dual
Center Frequency	[KHz]	40
Sensitivity For Receiver	[dB]	-90
Sound Pressure Level	[dB]	Min. 120 [28Vp-p / 30cm]
Capacitance	[pF]	2200
Input Voltage	[Vp-p]	Max. 160
Operating Temperature	[°C]	-20 ~ +80
Weight	[g]	8

Dimensions [size : Ø25 X 12 mm]

Unit: mm / Tolerance ±0.5mm



Ultrasonic Speaker
USM38 Series

IP64



Housing

ABS

Cone

Mylar

Terminal

Solder Pad

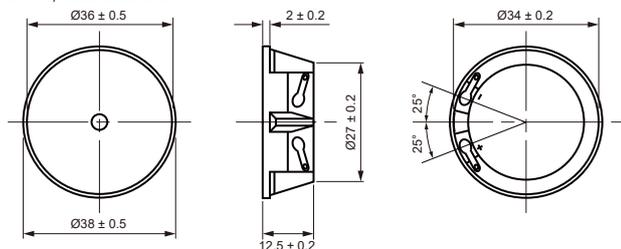
USM38-25

USM38-40

Function		Transmitter	Transmitter
Resonant Frequency	[KHz]	25	40
Frequency Range	[KHz]	20 ~ 60	20 ~ 40
Sound Pressure Level	[dB]	Min. 90 [9Vp-p / 30cm]	Min. 100 [9Vp-p / 20cm]
Capacitance	[pF]	100000	100000
Operating Voltage	[Vp-p]	1 ~ 30	1 ~ 30
Operating Temperature	[°C]	-20 ~ +70	-20 ~ +70
Weight	[g]	4	4

Dimensions [size : Ø38 X 12.5 mm]

Unit: mm / Tolerance ±0.5mm

Ultrasonic Speaker
USL41 Series

Housing

ABS

Cone

Paper

Terminal

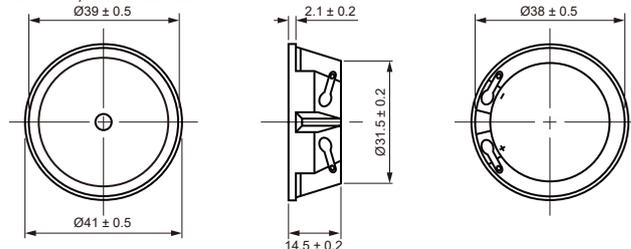
Solder Pad

USL41-25

Function		Transmitter
Resonant Frequency	[KHz]	25
Frequency Range	[KHz]	20 ~ 60
Sound Pressure Level	[dB]	Min. 90 [9Vp-p / 30cm]
Capacitance	[pF]	100000
Operating Voltage	[Vp-p]	1 ~ 30
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	5.5

Dimensions [size : Ø41 X 14.5 mm]

Unit: mm / Tolerance ±0.5mm

Ultrasonic Speaker
USL51 Series

Housing

ABS

Cone

Paper

Terminal

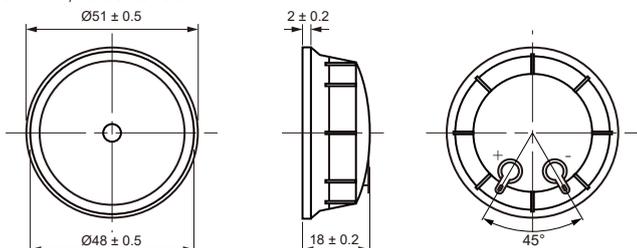
Solder Pad

USL51-20

Function		Transmitter
Resonant Frequency	[KHz]	20
Frequency Range	[KHz]	20 ~ 60
Sound Pressure Level	[dB]	Min. 95 [9Vp-p / 30cm]
Capacitance	[pF]	100000
Operating Voltage	[Vp-p]	1 ~ 30
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	8.5

Dimensions [size : Ø51 X 18 mm]

Unit: mm / Tolerance ±0.5mm

Ultrasonic Speaker
USM51E Series

IP64



Housing

ABS

Cone

Mylar

Terminal

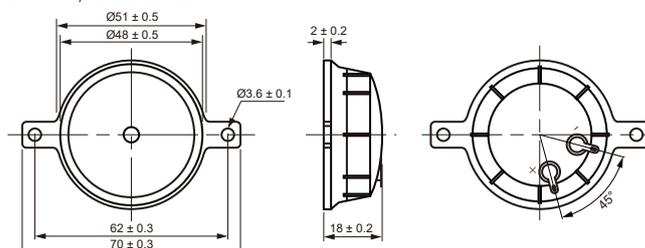
Solder Pad

USM51E-20

Function		Transmitter
Resonant Frequency	[KHz]	20
Frequency Range	[KHz]	20 ~ 60
Sound Pressure Level	[dB]	Min. 95 [9Vp-p / 30cm]
Capacitance	[pF]	100000
Operating Voltage	[Vp-p]	1 ~ 30
Operating Temperature	[°C]	-20 ~ +70
Weight	[g]	10

Dimensions [size : Ø51 X 18 mm]

Unit: mm / Tolerance ±0.5mm





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