

SMD COMMON MODE CHOKES FASQD50T,57T,75T,105,125T SERIES



FEATURES:

High impedance for common mode noise and low impedance for differential mode signal.
Large rated current available.
Wide band or sharp type impedance curve available.

APPLICATIONS:

Prevention of common mode noise on signal Lines and power lines for computer related or electronic products.

GENERAL SPECIFICATIONS:

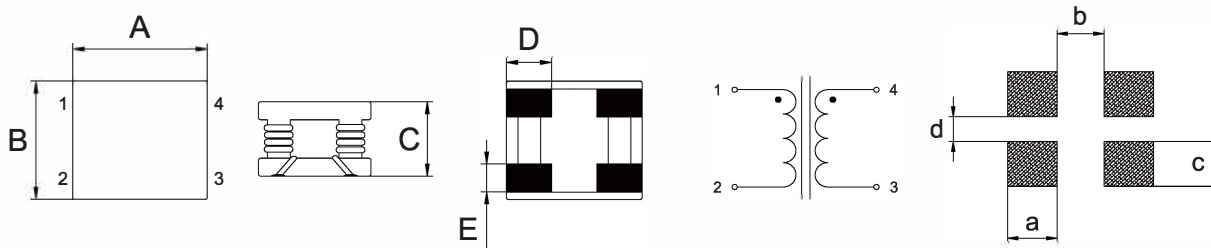
Rated current 0.5A to 6A.
Turns ratio: N1:N2=1:1 ± 2%.
Impedance tolerance: Typ at 20°C.
Operating temperature: -25°C to +125°C.
Storage Temp: -0°C to +40°C.
Resistance to Soldering Heat: 260°C for 10 sec.
Temperature Rise: 40°C Typ. at Rated Current.
All parts meet ROHS compliance.

ELECTRICAL CHARACTERISTICS

Stamp	FASQD50T			FASQD57T			FASQD75T			FASQD105T			FASQD125T		
	Impedance (Ω) Typ @100MHz	Rated current (A)	D.C.R (mΩ) Max at 20°C	Impedance (Ω) Typ @100MHz	Rated current (A)	D.C.R (mΩ) Max at 20°C	Impedance (Ω) Typ @100MHz	Rated current (A)	D.C.R (mΩ) Max at 20°C	Impedance (Ω) Typ @100MHz	Rated current (A)	D.C.R (mΩ) Max at 20°C	Impedance (Ω) Typ @100MHz	Rated current (A)	D.C.R (mΩ) Max at 20°C
1T				150	1.0	50									
2T				350	0.5	70	200	2.0	20				200	6.0	15
3T	600	4.0	50				300	1.5	25	600	4.0	50	300	5.5	20
4T	700	3.0	55				600	1.0	45	700	3.0	55	400	5.0	25

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

Part number	A	B	C	D	E	a	b	c	d
FASQD50T	5.0±0.3	8.5±0.3	5.0±0.5	1.70 REF	2.90 REF	2.1 REF	1.2 REF	3.6 REF	1.8 REF
FASQD57T	5.7±0.3	4.6±0.3	1.7±0.5	2.10 REF	1.20 REF	2.5 REF	1.0 REF	1.6 REF	1.8 REF
FASQD75T	7.5±0.3	6.0±0.3	3.2±0.5	2.55 REF	1.80 REF	3.1 REF	1.5 REF	2.4 REF	1.0 REF
FASQD105T	10.0±0.3	8.0±0.3	5.0±0.5	2.55 REF	1.75 REF	4.2 REF	3.6 REF	3.0 REF	2.0 REF
FASQD125T	12.0±0.3	10.0±0.3	6.0±0.5	3.60 REF	2.35 REF	4.75 REF	4.5 REF	4.5 REF	3.0 REF

SURFACE-MOUNT WIRE WOUND DUAL CHIP INDUCTORS

FASDRH0602D,1205D SERIES



FEATURES:

Higher Frequency
High Saturation Material
Low EMI Radiation
Pick and lace
Low DC Resistance

OPTIONS:

Packaging:Tape & Reel is standard [Qty:2000pcs]
Bulk packaging available for smaller quantities
Tolerance:10% and 5% is standard tighter tolerances available

COMMON APPLICATIONS:

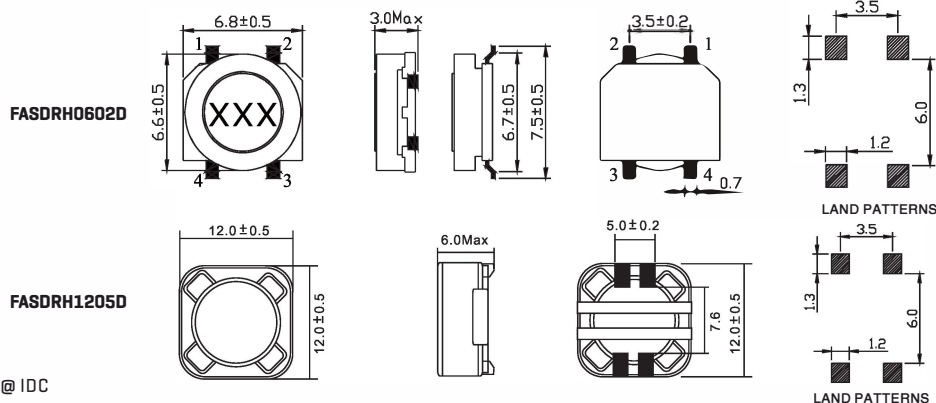
Electronic Appliances
DC - DC Conversion [Paraller Mode]
Isolation/Coupling[Transformer]
Input Filter[Serial Mode]
EMI/RFI Suppression

ELECTRICAL CHARACTERISTICS

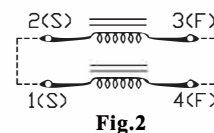
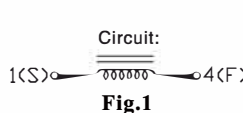
Part Number	L μ 1KHz	DCR (Ω) Max	IDC (mA) Max	Circuit Fig	Part Number	L μ 1KHz	DCR (Ω) Max	IDC (A) Max	Circuit Fig
FASDRH 0602D-100M	10	0.200	700	2	FASDRH 1205D-100M	10	0.025	4.00	2
FASDRH 0602D-120M	12	0.220	616	2	FASDRH 1205D-120M	12	0.027	3.50	2
FASDRH 0602D-150M	15	0.291	572	2	FASDRH 1205D-150M	15	0.030	3.30	2
FASDRH 0602D-180M	18	0.307	524	2	FASDRH 1205D-180M	18	0.030	3.00	2
FASDRH 0602D-220M	22	0.355	468	2	FASDRH 1205D-220M	22	0.036	2.80	2
FASDRH 0602D-270M	27	0.412	432	1	FASDRH 1205D-270M	27	0.051	2.30	2
FASDRH 0602D-330M	33	0.456	392	1	FASDRH 1205D-330M	33	0.057	2.10	2
FASDRH 0602D-390M	39	0.580	372	1	FASDRH 1205D-390M	39	0.068	2.00	2
FASDRH 0602D-470M	47	0.671	340	1	FASDRH 1205D-470M	47	0.075	1.80	2
FASDRH 0602D-560M	56	0.735	284	1	FASDRH 1205D-560M	56	0.11	1.70	2
FASDRH 0602D-680M	68	0.981	276	1	FASDRH 1205D-680M	68	0.12	1.50	2
FASDRH 0602D-820M	82	1.11	256	1	FASDRH 1205D-820M	82	0.14	1.40	2
FASDRH 0602D-101M	100	1.25	228	1	FASDRH 1205D-101M	100	0.16	1.30	2
FASDRH 0602D-121M	120	1.40	208	1	FASDRH 1205D-121M	120	0.17	1.10	2
FASDRH 0602D-151M	150	1.85	188	1	FASDRH 1205D-151M	150	0.23	1.00	2
FASDRH 0602D-181M	180	2.11	168	1	FASDRH 1205D-181M	180	0.29	0.90	2
FASDRH 0602D-221M	220	2.54	160	1	FASDRH 1205D-221M	220	0.40	0.80	2
FASDRH 0602D-271M	270	4.13	144	2	FASDRH 1205D-271M	270	0.46	0.75	2
FASDRH 0602D-331M	330	4.35	128	2	FASDRH 1205D-331M	330	0.51	0.68	2
FASDRH 0602D-391M	390	4.86	120	2	FASDRH 1205D-391M	390	0.69	0.65	2
FASDRH 0602D-471M	470	6.64	104	1	FASDRH 1205D-471M	470	0.77	0.58	2
FASDRH 0602D-561M	560	7.25	96	1	FASDRH 1205D-561M	560	0.86	0.54	2
FASDRH 0602D-681M	680	8.18	88	1	FASDRH 1205D-681M	680	1.20	0.48	2
FASDRH 0602D-821M	820	9.68	80	1	FASDRH 1205D-821M	820	1.34	0.43	2
FASDRH 0602D-102M	1000	15.4	72	1	FASDRH 1205D-102M	1000	1.53	0.40	2

Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Testing: [Equivalent acceptable
Inductance:Reduced by 10% to 20%@ IDC
RDC:QuadTech 1880 Milliohmmer
IDC Max:Lowes inductance by 10-20%
Temperature range: -55°C to +125°C
Note:All specifications subject to change without notice.



DIMENSIONS:MM