

DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Single, dual, isolated twin output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-0510	5(4.5~5.5)	3.3	30	300	72%
DAE1-0511		5	20	200	70%
DAE1-0512		9	11	110	78%
DAE1-0513		12	8.3	83	78%
DAE1-0514		15	6.8	68	80%
DAE1-0515		24	4.2	42	81%
DAE1-0520		±3.3	15	150	72%
DAE1-0521		±5	10	100	72%
DAE1-0522		±9	5.5	55	77%
DAE1-0523		±12	4	40	79%
DAE1-0524		±15	3.3	33	80%
DAE1-0525		±24	2.1	21	81%
DAE1-0501		5, 5	10	100	70%
DAE1-0502		9, 9	5.5	55	76%
DAE1-0503		12, 12	4	40	77%
DAE1-0504		15, 15	3.3	33	78%
DAE1-0505		24, 24	2.1	21	76%
DAE1-1210	12(10.8~13.2)	3.3	30	300	74%
DAE1-1211		5	20	200	71%
DAE1-1212		9	11	110	76%
DAE1-1213		12	8.3	83	78%
DAE1-1214		15	6.8	68	79%
DAE1-1215		24	4.2	42	84%
DAE1-1220		±3.3	15	150	72%
DAE1-1221		±5	10	100	72%
DAE1-1222		±9	5.5	55	78%
DAE1-1223		±12	4	40	79%
DAE1-1224		±15	3.3	33	78%
DAE1-1225		±24	2.1	21	76%

DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-1201	12(10.8~13.2)	5, 5	10	100	72%
DAE1-1202		9, 9	5.5	55	78%
DAE1-1203		12, 12	4	40	78%
DAE1-1204		15, 15	3.3	33	80%
DAE1-1205		24, 24	2.1	21	72%
DAE1-1510	15(13.5~16.5)	3.3	30	300	72%
DAE1-1511		5	20	200	72%
DAE1-1512		9	11	110	74%
DAE1-1513		12	8.3	83	76%
DAE1-1514		15	6.8	68	75%
DAE1-1515		24	4.2	42	72%
DAE1-1520		±3.3	15	150	72%
DAE1-1521		±5	10	100	72%
DAE1-1522		±9	5.5	55	74%
DAE1-1523		±12	4	40	76%
DAE1-1524		±15	3.3	33	79%
DAE1-1525		±24	2.1	21	78%
DAE1-1501		5, 5	10	100	72%
DAE1-1502		9, 9	5.5	55	78%
DAE1-1503		12, 12	4	40	78%
DAE1-1504	15, 15	3.3	33	80%	
DAE1-1505	24, 24	2.1	21	72%	
DAE1-2410	24(21.6~26.4)	3.3	30	300	72%
DAE1-2411		5	20	200	73%
DAE1-2412		9	11	110	75%
DAE1-2413		12	8.3	83	78%
DAE1-2414		15	6.8	68	79%
DAE1-2415		24	4.2	42	78%
DAE1-2420		±3.3	15	150	72%
DAE1-2421		±5	10	100	73%
DAE1-2422		±9	5.5	55	79%
DAE1-2423		±12	4	40	80%
DAE1-2424		±15	3.3	33	80%
DAE1-2425		±24	2.1	21	81%
DAE1-2401		5, 5	10	100	71%

DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-2402	24(21.6~26.4)	9, 9	5.5	55	74%
DAE1-2403		12, 12	4	40	76%
DAE1-2404		15, 15	3.3	33	76%
DAE1-2405		24, 24	2.1	21	72%
DAE1-4811		48(43.2~52.8)	5	20	200
DAE1-4812	9		11	110	74%
DAE1-4813	12		8.3	83	76%
DAE1-4814	15		6.8	68	76%
DAE1-4821	±5		10	100	72%
DAE1-4822	±9		5.5	55	74%
DAE1-4823	±12		4	40	76%
DAE1-4824	±15		3.3	33	74%

**Notes: 1. other input and output models may available on request;
2. Add suffix "P" for short circuit protection.**

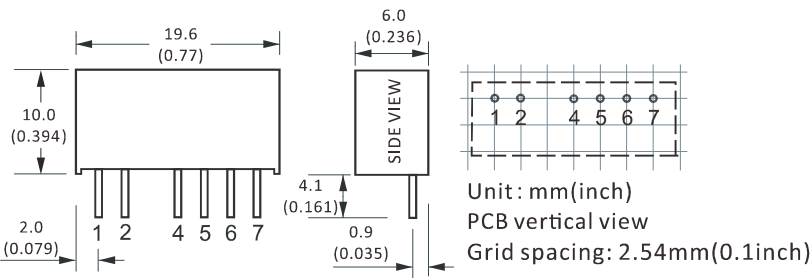
ELECTRICAL

Output voltage accuracy	---	±5% max.
Line regulation	---	Vo=3.3V, ±1.5% Others, ±1.2% max.
Load regulation	10% ~ 100% full load	Vo=3.3V, 20% Others, 15% max.
Switching frequency	---	100KHz
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	Only available for "DAE1-xx1xP" product	Continuous, auto-recovery
Operating temperature range	---	-55°C to +125°C
Storage temperature range	5%~95%, non-condensing	-40°C to +85°C
Temperature coefficient	---	±0.03%/°C
MTBF	MIL-HDBK-217F@25°C	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

MECHANICAL



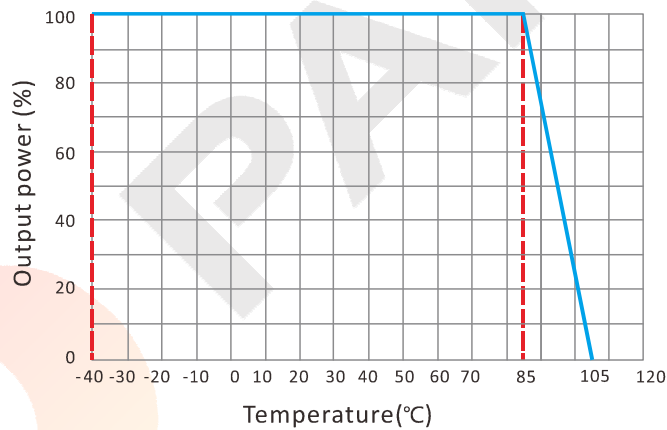
CONNECTION

PIN #	SINGLE	DUAL	ISOLATED
			TWIN
1	+Vin	+Vin	+Vin
2	GND	GND	GND
4	0V	-Vo	-Vo1
5	No Pin	0V	+Vo1
6	+Vo	+Vo	-Vo2
7	No Pin	No Pin	+Vo2

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

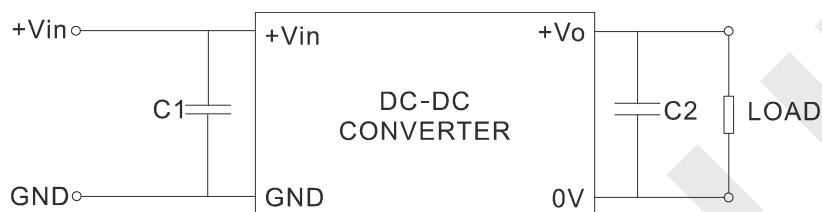


DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

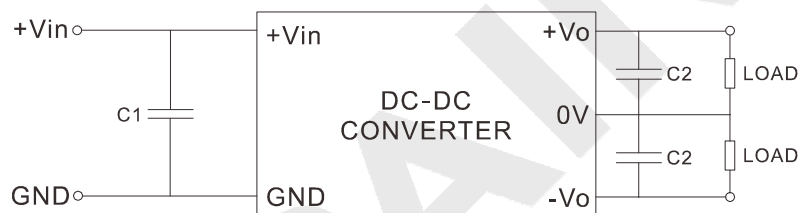
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

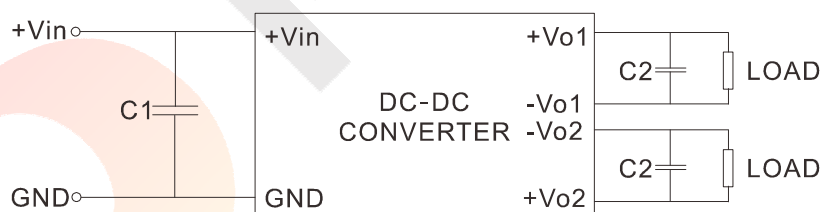
SINGLE OUTPUT



DUAL OUTPUT



ISOLATED TWIN OUTPUT

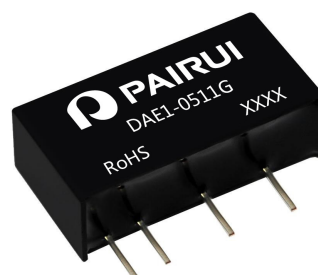


CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2	ISOLATED TWIN OUTPUT	C2
5VDC	4.7 μ F	3.3VDC	10 μ F	\pm 5VDC	4.7 μ F	5, 5VDC	4.7 μ F
12VDC	2.2 μ F	5VDC	10 μ F	\pm 9VDC	2.2 μ F	9, 9VDC	2.2 μ F
15VDC	2.2 μ F	9VDC	4.7 μ F	\pm 12VDC	1.0 μ F	12, 12VDC	1.0 μ F
24VDC	1.0 μ F	12VDC	2.2 μ F	\pm 15VDC	0.47 μ F	15, 15VDC	0.47 μ F
48VDC	0.47 μ F	15VDC	1.0 μ F	\pm 24VDC	0.47 μ F	24, 24VDC	0.47 μ F
--	--	24VDC	1.0 μ F	--	--	--	--

DAE-1G SERIES, 1WATT, 5.2KVDC, UNREGULATED
FEATURES:

- ✓ 5200Vdc isolation voltage
- ✓ Low isolation capacitance
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-0511G	5(4.5~5.5)	5	20	200	70%
DAE1-0512G		9	11	110	74%
DAE1-0513G		12	8.3	83	75%
DAE1-0514G		15	6.8	68	77%
DAE1-0515G		24	4.2	42	70%
DAE1-0521G		±5	10	100	70%
DAE1-0522G		±9	5.5	55	71%
DAE1-0523G		±12	4	40	72%
DAE1-0524G		±15	3.3	33	73%
DAE1-0525G		±24	2.1	21	74%
DAE1-1211G	12(10.8~13.2)	5	20	200	70%
DAE1-1212G		9	11	110	74%
DAE1-1213G		12	8.3	83	75%
DAE1-1214G		15	6.8	68	77%
DAE1-1215G		24	4.2	42	75%
DAE1-1221G		±5	10	100	70%
DAE1-1222G		±9	5.5	55	71%
DAE1-1223G		±12	4	40	72%
DAE1-1224G		±15	3.3	33	73%
DAE1-1225G		±24	2.1	21	72%
DAE1-1511G	15(13.5~16.5)	5	20	200	70%
DAE1-1512G		9	11	110	80%
DAE1-1513G		12	8.3	83	80%
DAE1-1514G		15	6.8	68	77%
DAE1-1515G		24	4.2	42	77%
DAE1-1521G		±5	10	100	70%
DAE1-1522G		±9	5.5	55	70%
DAE1-1523G		±12	4	40	72%
DAE1-1524G		±15	3.3	33	75%
DAE1-1525G		±24	2.1	21	75%



DAE-1G SERIES, 1WATT, 5.2KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-2411G	24(21.6~26.4)	5	20	200	70%
DAE1-2412G		9	11	110	74%
DAE1-2413G		12	8.3	83	75%
DAE1-2414G		15	6.8	68	77%
DAE1-2415G		24	4.2	42	77%
DAE1-2421G		±5	10	100	72%
DAE1-2422G		±9	5.5	55	73%
DAE1-2423G		±12	4	40	74%
DAE1-2424G		±15	3.3	33	72%
DAE1-2425G		±24	2.1	21	72%

Notes: 1. other input and output models may available on request;
2. Add suffix "P" for continuous short circuit protection.

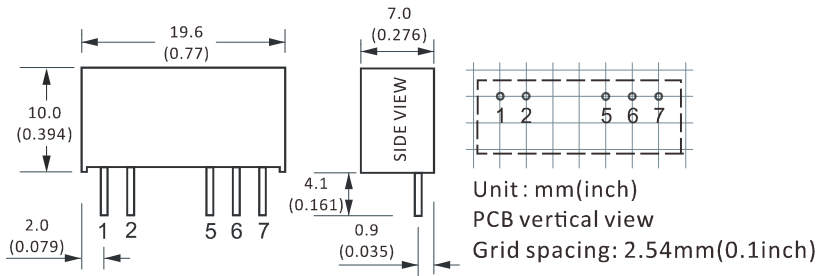
ELECTRICAL

Line regulation	---	1.2% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	5200Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	60KHz typ.
Ripple & noise	Bend width 20MHz	150mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAE-1G SERIES, 1WATT, 5.2KVDC, UNREGULATED

MECHANICAL



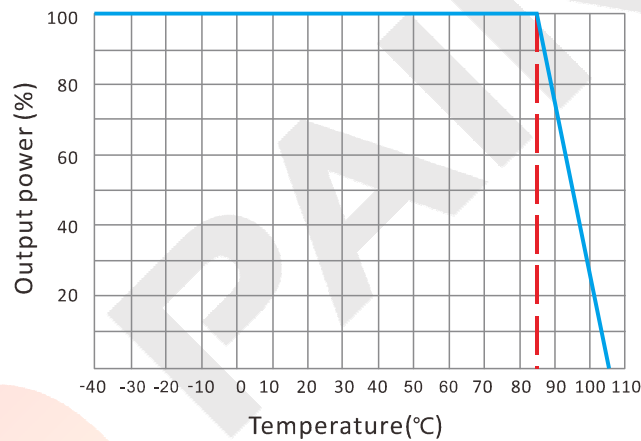
CONNECTION

PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

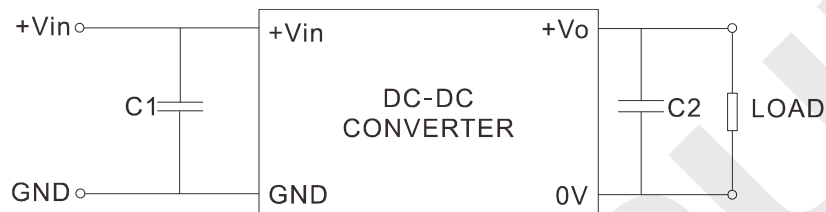


DAE-1G SERIES, 1WATT, 5.2KVDC, UNREGULATED

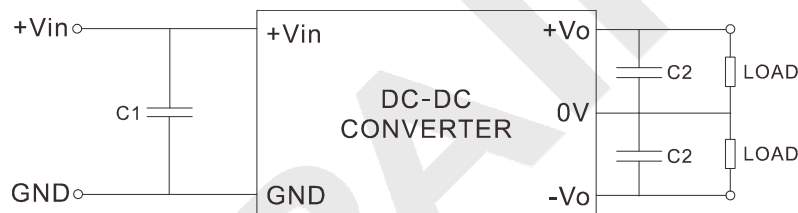
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7 μ F	5VDC	10 μ F	\pm 5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F	\pm 9VDC	2.2 μ F
15VDC	1.0 μ F	12VDC	2.2 μ F	\pm 12VDC	1.0 μ F
24VDC	1.0 μ F	15VDC	2.2 μ F	\pm 15VDC	1.0 μ F
--	--	24VDC	1.0 μ F	\pm 24VDC	0.47 μ F

DAE-1H SERIES, 1WATT, 6KVDC, UNREGULATED

FEATURES:

- ✓ 6000Vdc isolation voltage
- ✓ Low isolation capacitance
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-0510H	5(4.5~5.5)	3.3	30	300	68%
DAE1-0511H		5	20	200	70%
DAE1-0512H		9	11	110	71%
DAE1-0513H		12	8.3	83	72%
DAE1-0514H		15	6.8	68	74%
DAE1-0515H		24	4.2	42	70%
DAE1-0521H		±5	10	100	68%
DAE1-0522H		±9	5.5	55	70%
DAE1-0523H		±12	4	40	72%
DAE1-0524H		±15	3.3	33	73%
DAE1-0525H		±24	2.1	21	74%
DAE1-1210H		12(10.8~13.2)	3.3	30	300
DAE1-1211H	5		20	200	71%
DAE1-1212H	9		11	110	72%
DAE1-1213H	12		8.3	83	73%
DAE1-1214H	15		6.8	68	74%
DAE1-1215H	24		4.2	42	80%
DAE1-1221H	±5		10	100	80%
DAE1-1222H	±9		5.5	55	80%
DAE1-1223H	±12		4	40	80%
DAE1-1224H	±15		3.3	33	80%
DAE1-1225H	±24		2.1	21	80%
DAE1-1510H	15(13.5~16.5)		3.3	30	300
DAE1-1511H		5	20	200	80%
DAE1-1512H		9	11	110	80%
DAE1-1513H		12	8.3	83	80%
DAE1-1514H		15	6.8	68	80%
DAE1-1515H		24	4.2	42	80%
DAE1-1521H		±5	10	100	80%

DAE-1H SERIES, 1WATT, 6KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-1522H	15(13.5~16.5)	±9	5.5	55	80%
DAE1-1523H		±12	4	40	80%
DAE1-1524H		±15	3.3	33	80%
DAE1-1525H		±24	2.1	21	80%
DAE1-2410H	24(21.6~26.4)	3.3	30	300	68%
DAE1-2411H		5	20	200	80%
DAE1-2412H		9	11	110	80%
DAE1-2413H		12	8.3	83	80%
DAE1-2414H		15	6.8	68	80%
DAE1-2415H		24	4.2	42	80%
DAE1-2421H		±5	10	100	80%
DAE1-2422H		±9	5.5	55	80%
DAE1-2423H		±12	4	40	80%
DAE1-2424H		±15	3.3	33	80%
DAE1-2425H		±24	2.1	21	80%

**Notes: 1. other input and output models may available on request;
2. Add suffix "P" for continuous short circuit protection.**

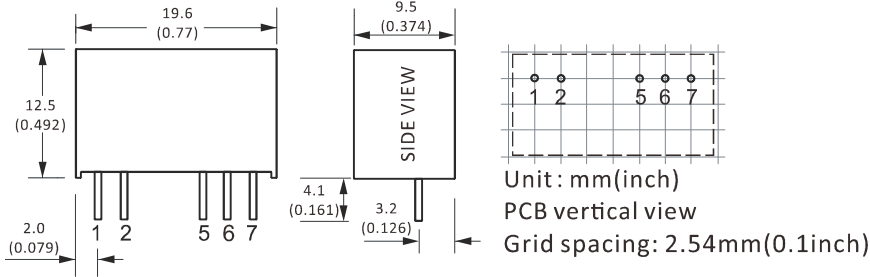
ELECTRICAL

Line regulation	---	1.2% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	6000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	70KHz typ.
Ripple & noise	Bend width 20MHz	200mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	2.7g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAE-1H SERIES, 1WATT, 6KVDC, UNREGULATED

ELECTRICAL CURVE



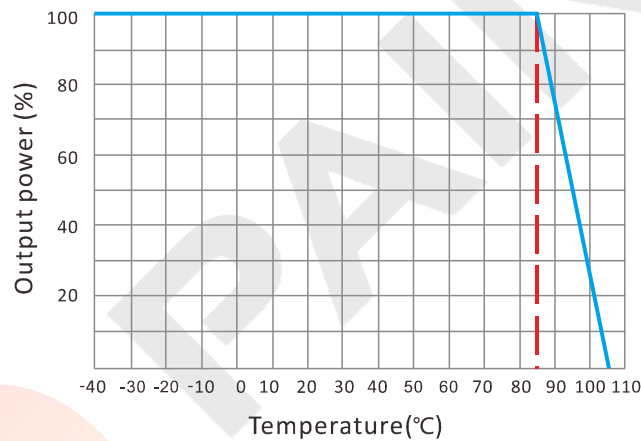
CONNECTION

PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

TEMPERATURE PROFILE

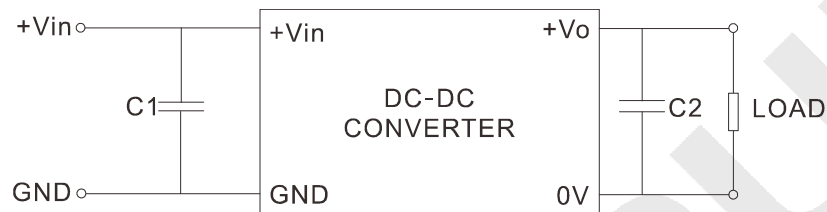


DAE-1H SERIES, 1WATT, 6KVDC, UNREGULATED

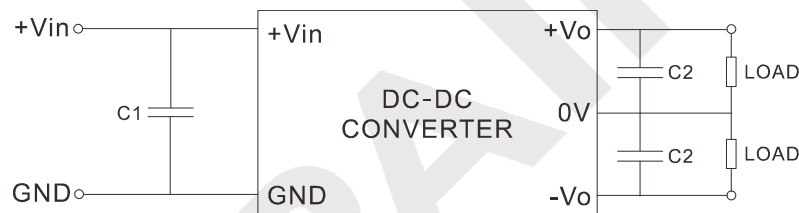
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7 μ F	5VDC	10 μ F	\pm 5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F	\pm 9VDC	2.2 μ F
15VDC	1.0 μ F	12VDC	2.2 μ F	\pm 12VDC	1.0 μ F
24VDC	1.0 μ F	15VDC	1.0 μ F	\pm 15VDC	1.0 μ F
--	--	24VDC	1.0 μ F	\pm 24VDC	0.47 μ F

DAE-2 SERIES, 2WATT, 1KVDC, UNREGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Single, dual, isolated twin output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-0511	5(4.5~5.5)	5	40	400	70%
DAE2-0512		9	22	220	83%
DAE2-0513		12	16.6	166	85%
DAE2-0514		15	13.6	136	83%
DAE2-0515		24	8.4	84	81%
DAE2-0521		±5	20	200	82%
DAE2-0522		±9	11	110	85%
DAE2-0523		±12	8	80	86%
DAE2-0524		±15	6.8	68	82%
DAE2-0525		±24	4.2	42	84%
DAE2-0501		5, 5	20	200	80%
DAE2-0502		9, 9	11	110	82%
DAE2-0503		12, 12	8	80	82%
DAE2-0504		15, 15	6.8	68	83%
DAE2-0505		24, 24	4.2	42	80%
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DAE2-1211	12(10.8~13.2)	5	40	400	78%
DAE2-1212		9	22	220	82%
DAE2-1213		12	16.6	166	84%
DAE2-1214		15	13.6	136	81%
DAE2-1215		24	8.4	84	80%
DAE2-1221		±5	20	200	81%
DAE2-1222		±9	11	110	84%
DAE2-1223		±12	8	80	86%
DAE2-1224		±15	6.8	68	82%
DAE2-1225		±24	4.2	42	84%
DAE2-1201		5, 5	20	200	80%
DAE2-1202		9, 9	11	110	83%
DAE2-1203		12, 12	8	80	85%
DAE2-1204		15, 15	6.8	68	83%

DAE-2 SERIES, 2WATT, 1KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-1205	12(10.8~13.2)	24, 24	4.2	42	80%
DAE2-2411		5	40	400	81%
DAE2-2412		9	22	220	85%
DAE2-2413		12	16.6	166	84%
DAE2-2414		15	13.6	136	85%
DAE2-2415		24	8.4	84	84%
DAE2-2421		±5	20	200	80%
DAE2-2422		±9	11	110	84%
DAE2-2423	24(21.6~26.4)	±12	8	80	84%
DAE2-2424		±15	6.8	68	84%
DAE2-2425		±24	4.2	42	85%
DAE2-2401		5, 5	20	200	81%
DAE2-2402		9, 9	11	110	82%
DAE2-2403		12, 12	8	80	84%
DAE2-2404		15, 15	6.8	68	84%
DAE2-2405		24, 24	4.2	42	80%

Notes: 1. other input and output models may available on request;
2. Add suffix "P" for short circuit protection.

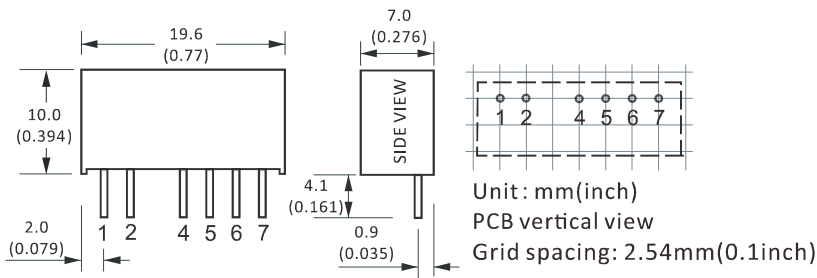
ELECTRICAL

Line regulation	---	±1.2%
Load regulation	10% ~ 100% full load	±15% max.
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	2.5g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAE-2 SERIES, 2WATT, 1KVDC, UNREGULATED

MECHANICAL



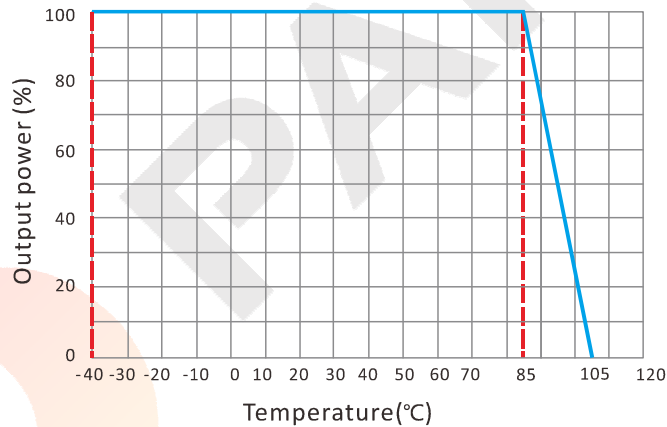
CONNECTION

PIN #	SINGLE	DUAL	ISOLATE D TWIN
1	+Vin	+Vin	+Vin
2	GND	GND	GND
4	0V	-Vo	-Vo1
5	No Pin	0V	+Vo1
6	+Vo	+Vo	-Vo2
7	No Pin	No Pin	+Vo2

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

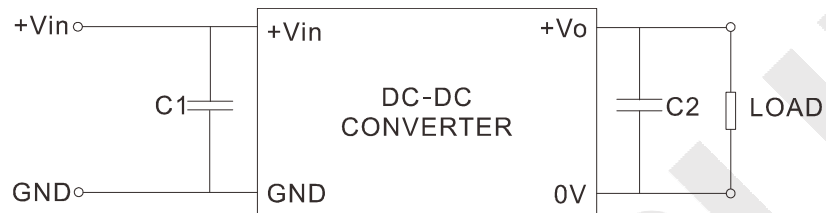


DAE-2 SERIES, 2WATT, 1KVDC, UNREGULATED

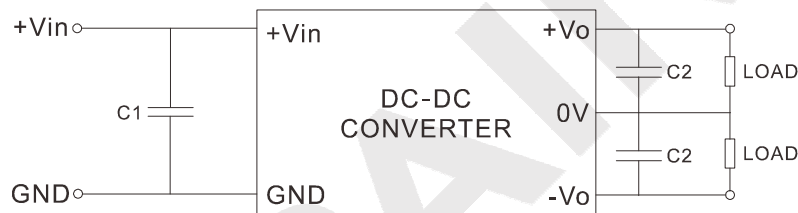
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

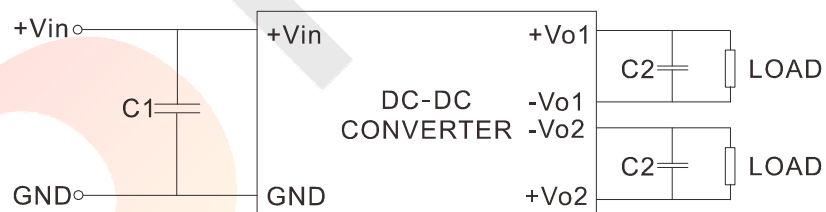
SINGLE OUTPUT



DUAL OUTPUT



ISOLATED TWIN OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2	ISOLATED TWIN OUTPUT	C2
5VDC	4.7 μ F	3.3VDC	4.7 μ F	\pm 5VDC	4.7 μ F	5, 5VDC	4.7 μ F
12VDC	2.2 μ F	5VDC	4.7 μ F	\pm 9VDC	2.2 μ F	9, 9VDC	2.2 μ F
15VDC	2.2 μ F	9VDC	2.2 μ F	\pm 12VDC	1.0 μ F	12, 12VDC	1.0 μ F
24VDC	1.0 μ F	12VDC	1.0 μ F	\pm 15VDC	0.47 μ F	15, 15VDC	0.47 μ F
48VDC	0.47 μ F	15VDC	1.0 μ F	\pm 24VDC	0.47 μ F	24, 24VDC	0.47 μ F
--	--	24VDC	0.47 μ F	--	--	--	--

DAE-2F SERIES, 2WATT, 3KVDC, UNREGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Single and dual output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-0511F	5(4.5~5.5)	5	40	400	81%
DAE2-0512F		9	22	220	83%
DAE2-0513F		12	16.6	166	83%
DAE2-0514F		15	13.6	136	83%
DAE2-0515F		24	8.4	84	84%
DAE2-0521F		±5	20	200	82%
DAE2-0522F		±9	11	110	83%
DAE2-0523F		±12	8	80	84%
DAE2-0524F		±15	6.8	68	82%
DAE2-0525F		±24	4.2	42	82%
DAE2-1211F	12(10.8~13.2)	5	40	400	80%
DAE2-1212F		9	22	220	82%
DAE2-1213F		12	16.6	166	83%
DAE2-1214F		15	13.6	136	83%
DAE2-1215F		24	8.4	84	82%
DAE2-1221F		±5	20	200	80%
DAE2-1222F		±9	11	110	83%
DAE2-1223F		±12	8	80	85%
DAE2-1224F		±15	6.8	68	82%
DAE2-1225F		±24	4.2	42	80%
DAE2-2411F	24(21.6~26.4)	5	40	400	80%
DAE2-2412F		9	22	220	82%
DAE2-2413F		12	16.6	166	83%
DAE2-2414F		15	13.6	136	85%
DAE2-2415F		24	8.4	84	85%
DAE2-2421F		±5	20	200	82%
DAE2-2422F		±9	11	110	82%
DAE2-2423F		±12	8	80	85%

DAE-2F SERIES, 2WATT, 3KVDC, UNREGULATED

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-2424F	24(21.6~26.4)	±15	6.8	68	85%
DAE2-2425F		±24	4.2	42	82%

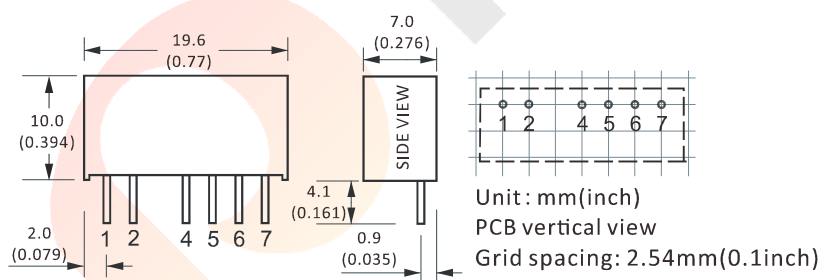
Notes: 1. other input and output models may available on request;
2. Add suffix "P" for short circuit protection.

ELECTRICAL

Line regulation	---	±1.2%
Load regulation	10% ~ 100% full load	15% max.
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	3000Vdc
Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	2.5g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

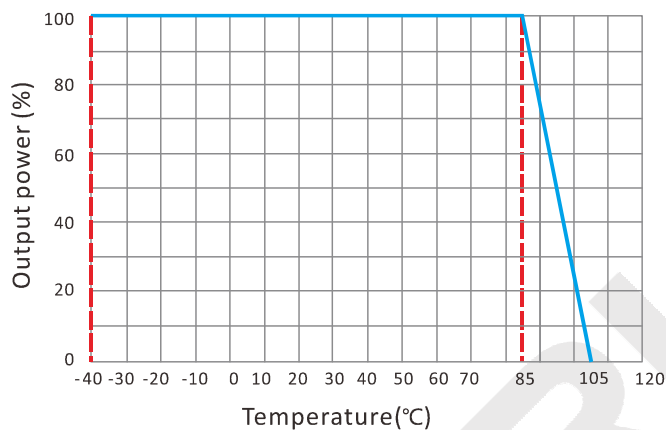
PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

DAE-2F SERIES, 2WATT, 3KVDC, UNREGULATED

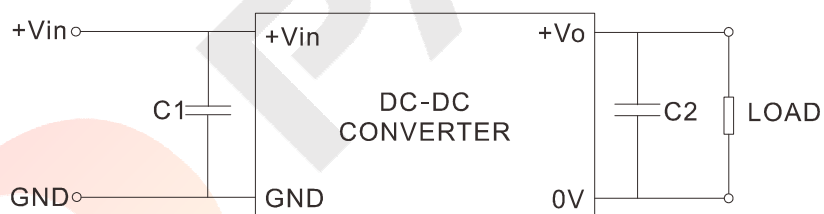
ELECTRICAL CURVE



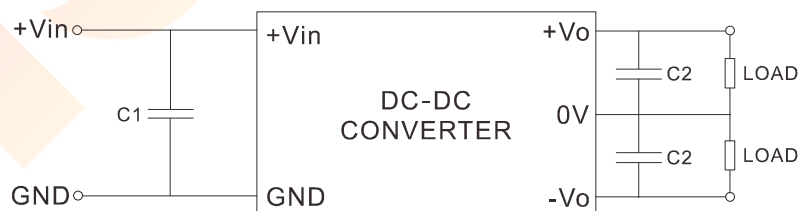
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



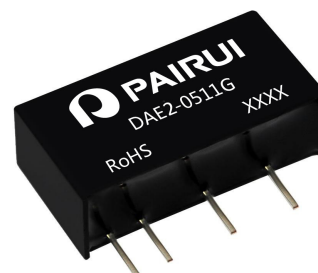
DAE-2F SERIES, 2WATT, 3KVDC, UNREGULATED

NOTES

INPUT VOLTAGE	CAPACITOR SELECTION				
	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7 μ F	5VDC	10 μ F	\pm 5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F	\pm 9VDC	2.2 μ F
24VDC	1.0 μ F	12VDC	2.2 μ F	\pm 12VDC	1.0 μ F
--	--	15VDC	1.0 μ F	\pm 15VDC	1.0 μ F
--	--	24VDC	1.0 μ F	\pm 24VDC	0.47 μ F

DAE-2G SERIES, 2WATT, 5.2KVDC, UNREGULATED
FEATURES:

- ✓ 5200Vdc isolation voltage
- ✓ Low isolation capacitance
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-0511G	5(4.5~5.5)	5	40	400	74%
DAE2-0512G		9	22.2	222	76%
DAE2-0513G		12	16.7	167	78%
DAE2-0514G		15	13.3	133	77%
DAE2-0515G		24	8.3	83	75%
DAE2-0521G		±5	20	200	73%
DAE2-0522G		±9	11.1	111	75%
DAE2-0523G		±12	8.3	83	76%
DAE2-0524G		±15	6.7	67	77%
DAE2-0525G		±24	4.2	42	75%
DAE2-1211G	12(10.8~13.2)	5	40	400	75%
DAE2-1212G		9	22.2	222	77%
DAE2-1213G		12	16.7	167	78%
DAE2-1214G		15	13.3	133	80%
DAE2-1215G		24	8.3	83	75%
DAE2-1221G		±5	20	200	73%
DAE2-1222G		±9	11.1	111	76%
DAE2-1223G		±12	8.3	83	77%
DAE2-1224G		±15	6.7	67	78%
DAE2-1225G		±24	4.2	42	76%
DAE2-2411G	24(21.6~26.4)	5	40	400	75%
DAE2-2412G		9	22.2	222	77%
DAE2-2413G		12	16.7	167	78%
DAE2-2414G		15	13.3	133	80%
DAE2-2415G		24	8.3	83	78%
DAE2-2421G		±5	20	200	74%
DAE2-2422G		±9	11.1	111	77%
DAE2-2423G		±12	8.3	83	78%
DAE2-2424G		±15	6.7	67	78%
DAE2-2425G		±24	4.2	42	74%

DAE-2G SERIES, 2WATT, 5.2KVDC, UNREGULATED

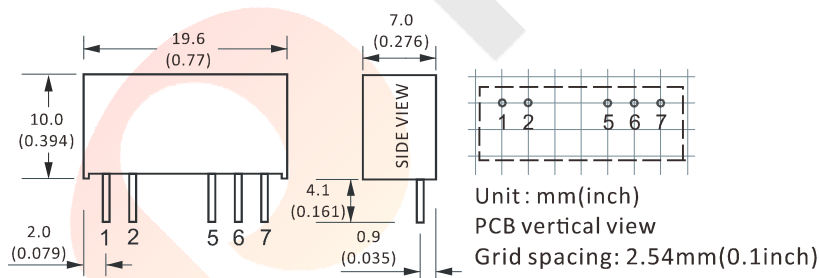
Notes: 1. other input and output models may available on request;
2. Add suffix "P" for continuous short circuit protection.

ELECTRICAL

Line regulation	---	1.2% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	5200Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	60KHz typ.
Ripple & noise	Bend width 20MHz	150mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

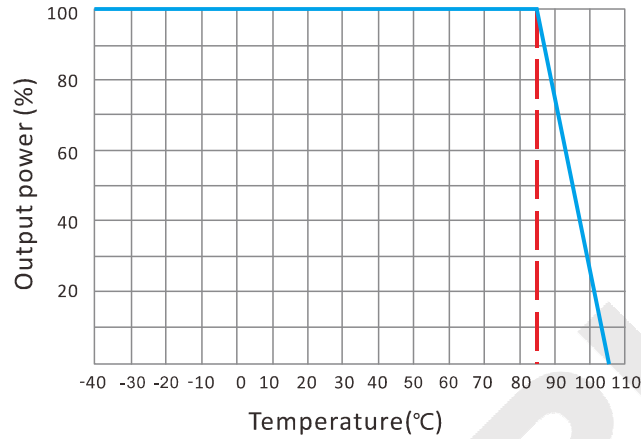
PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

DAE-2G SERIES, 2WATT, 5.2KVDC, UNREGULATED

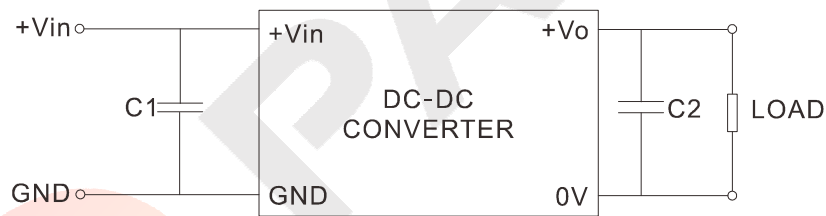
ELECTRICAL CURVE



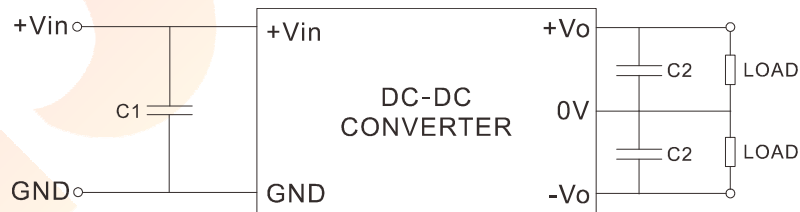
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



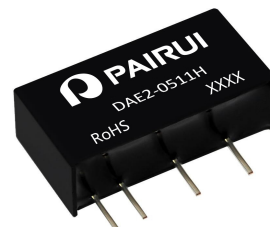
CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7μF	5VDC	4.7μF	±5VDC	4.7μF
12VDC	2.2μF	9VDC	2.2μF	±9VDC	2.2μF
24VDC	1.0μF	12VDC	1.0μF	±12VDC	1.0μF
--	--	15VDC	1.0μF	±15VDC	1.0μF
--	--	24VDC	0.47μF	±24VDC	0.47μF

DAE-2H SERIES, 2WATT, 6KVDC, UNREGULATED

FEATURES:

- ✓ 6000Vdc isolation voltage
- ✓ Low isolation capacitance
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE2-0510H	5(4.5~5.5)	3.3	60	600	70%
DAE2-0511H		5	40	400	74%
DAE2-0512H		9	22.2	222	77%
DAE2-0513H		12	16.7	167	77%
DAE2-0514H		15	13.3	133	77%
DAE2-0521H		±5	100	200	74%
DAE2-0522H		±9	11.1	111	77%
DAE2-0523H		±12	8.3	83	77%
DAE2-0524H		±15	6.7	67	77%
DAE2-1210H	12(10.8~13.2)	3.3	60	600	70%
DAE2-1211H		5	40	400	75%
DAE2-1212H		9	22.2	222	78%
DAE2-1213H		12	16.7	167	80%
DAE2-1214H		15	13.3	133	87%
DAE2-1221H		±5	100	200	75%
DAE2-1222H		±9	11.1	111	78%
DAE2-1223H		±12	8.3	83	80%
DAE2-1224H		±15	6.7	67	87%
DAE2-1514H	15(13.5~16.5)	15	13.3	133	77%
DAE2-2410H	24(21.6~26.4)	3.3	60	600	70%
DAE2-2411H		5	40	400	75%
DAE2-2412H		9	22.2	222	77%
DAE2-2413H		12	16.7	167	80%
DAE2-2414H		15	13.3	133	79%
DAE2-2421H		±5	100	200	75%
DAE2-2422H		±9	11.1	111	77%
DAE2-2423H		±12	8.3	83	80%
DAE2-2424H		±15	6.7	67	79%

Notes: 1. Other input and output models may available on request;

2. Add suffix "P" for continuous short circuit protection.

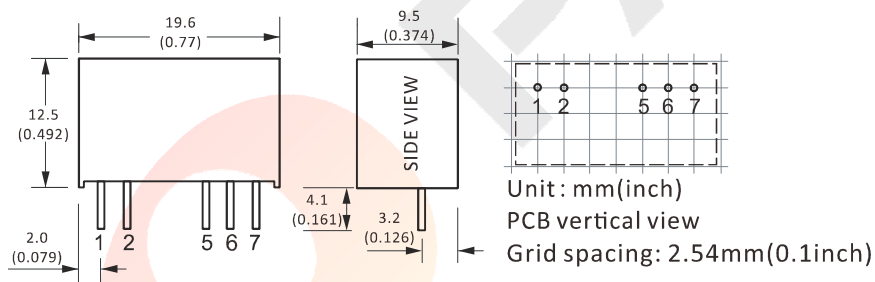
DAE-2H SERIES, 2WATT, 6KVDC, UNREGULATED

ELECTRICAL

Line regulation	---	1.2% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	6000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	70KHz typ.
Ripple & noise	Bend width 20MHz	150mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	2.7g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

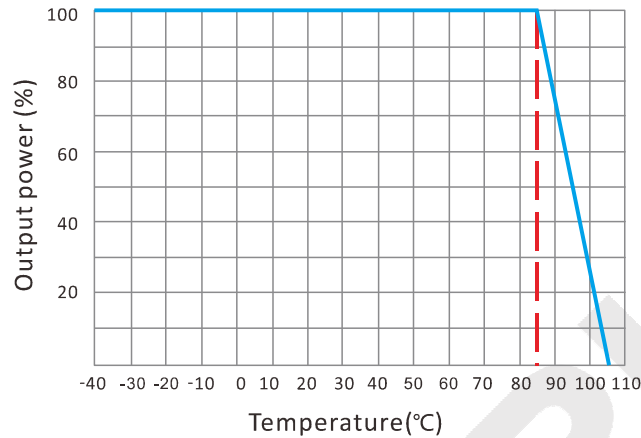
PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

DAE-2H SERIES, 2WATT, 6KVDC, UNREGULATED

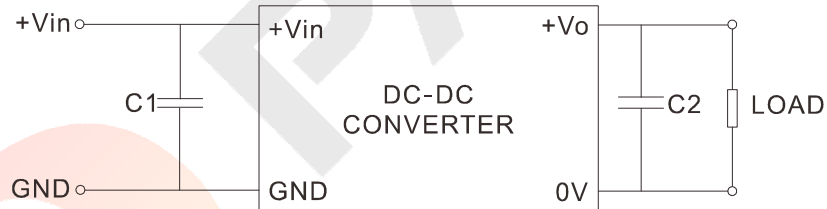
ELECTRICAL CURVE



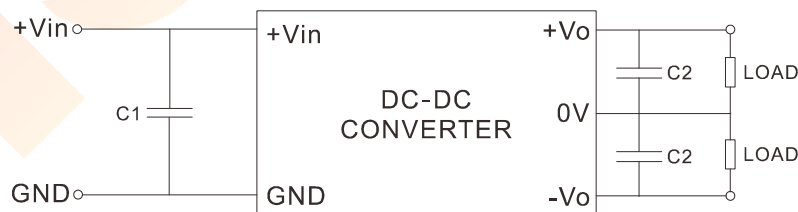
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



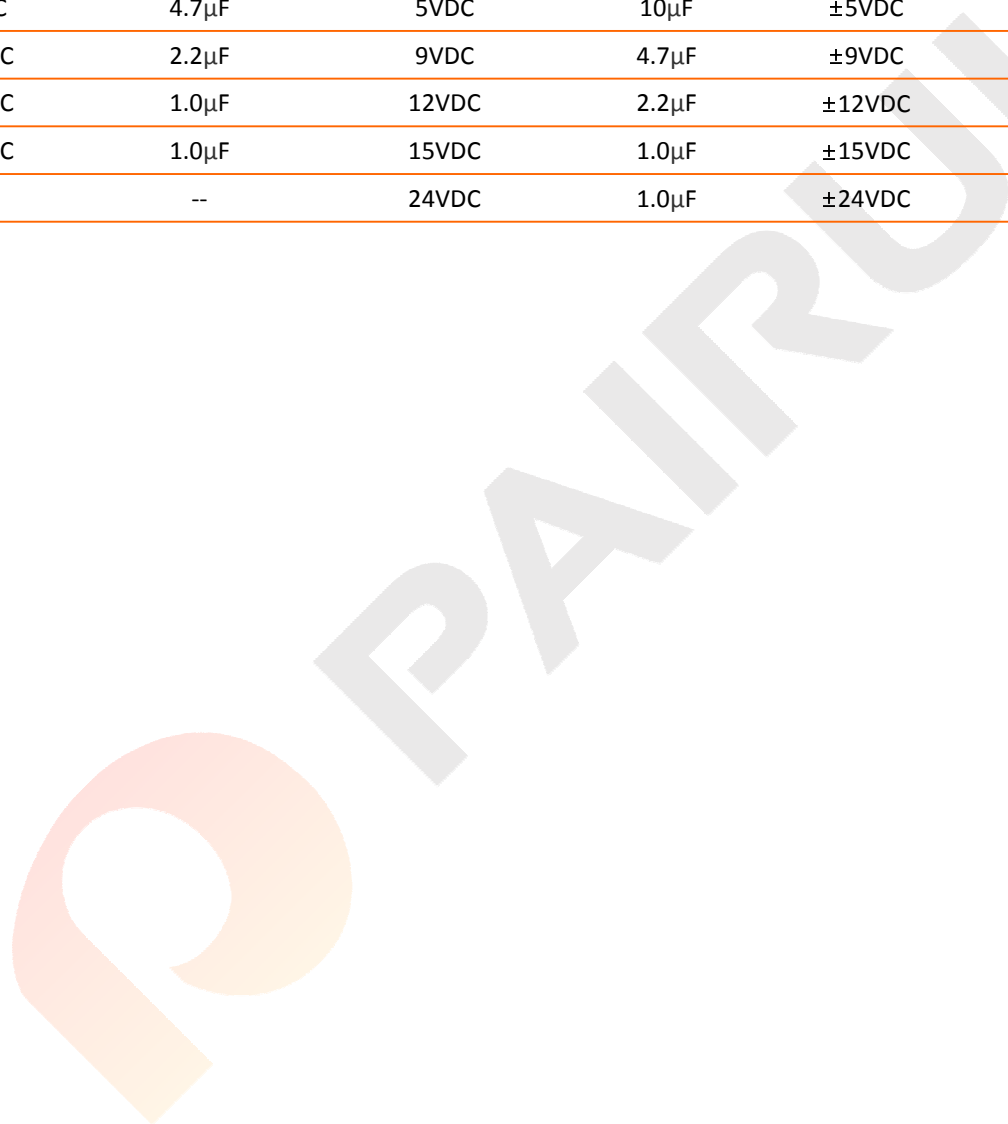


DAE-2H SERIES, 2WATT, 6KVDC, UNREGULATED

NOTES

CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7µF	5VDC	10µF	±5VDC	4.7µF
12VDC	2.2µF	9VDC	4.7µF	±9VDC	2.2µF
15VDC	1.0µF	12VDC	2.2µF	±12VDC	1.0µF
24VDC	1.0µF	15VDC	1.0µF	±15VDC	1.0µF
--	--	24VDC	1.0µF	±24VDC	0.47µF



DAE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Single and dual output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-0511F	5(4.5~5.5)	5	20	200	72%
DAE1-0512F		9	11	110	76%
DAE1-0513F		12	8.3	83	79%
DAE1-0514F		15	6.8	68	79%
DAE1-0515F		24	4.2	42	79%
DAE1-0521F		±5	10	100	71%
DAE1-0522F		±9	5.5	55	77%
DAE1-0523F		±12	4	40	78%
DAE1-0524F		±15	3.3	33	79%
DAE1-0525F		±24	2.1	21	76%
DAE1-1211F		12(10.8~13.2)	5	20	200
DAE1-1212F	9		11	110	75%
DAE1-1213F	12		8.3	83	78%
DAE1-1214F	15		6.8	68	79%
DAE1-1215F	24		4.2	42	79%
DAE1-1221F	±5		10	100	73%
DAE1-1222F	±9		5.5	55	77%
DAE1-1223F	±12		4	40	80%
DAE1-1224F	±15		3.3	33	80%
DAE1-1225F	±24		2.1	21	76%
DAE1-1511F	15(13.5~16.5)		5	20	200
DAE1-1512F		15	6.7	67	82%
DAE1-1521F		±5	10	100	80%
DAE1-1522F		±12	4.2	42	80%
DAE1-1523F		±15	3.3	33	81%
DAE1-2411F	24(21.6~26.4)	5	20	200	71%
DAE1-2412F		9	11	110	76%
DAE1-2413F		12	8.3	83	78%
DAE1-2414F		15	6.8	68	80%
DAE1-2415F		24	4.2	42	77%
DAE1-2421F		±5	10	100	73%
DAE1-2422F		±9	5.5	55	77%

DAE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

DAE1-2423F	±12	4	40	80%
DAE1-2424F	±15	3.3	33	80%
DAE1-2425F	±24	2.1	21	75%

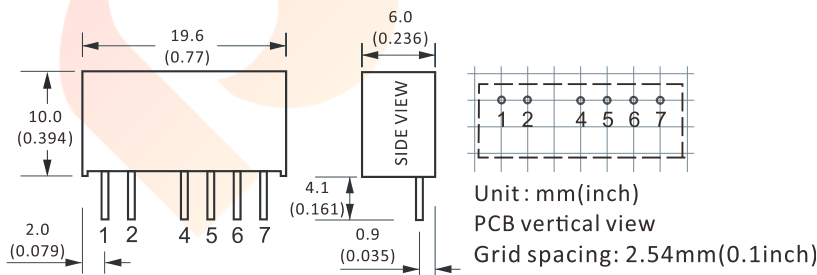
Notes: 1. other input and output models may available on request;
2. Add suffix "P" for short circuit protection.

ELECTRICAL

Output voltage accuracy	---	±5% max.
Line regulation	---	±1.2%
Load regulation	10% ~ 100% full load	15% max.
Switching frequency	---	100KHz
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	3000Vdc
Short circuit protection	Only available for "DAE1-xxxxFP" product	Continuous, auto-recovery
Operating temperature range	---	-40°C to +85°C
Storage temperature range	5%~95%, non-condensing	-40°C to +85°C
Temperature coefficient	---	±0.03%/°C
MTBF	MIL-HDBK-217F@25°C	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

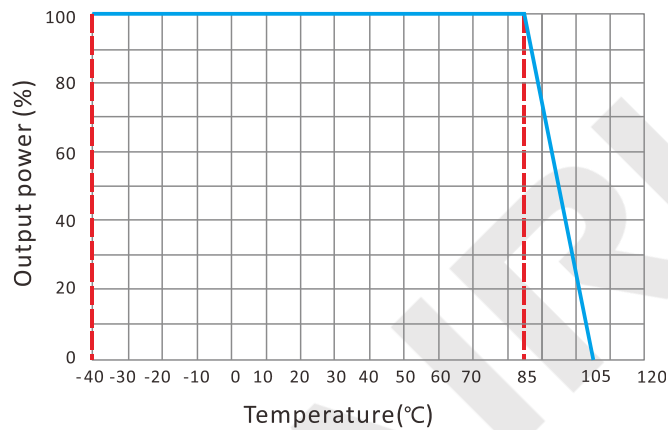
PIN #	SINGLE	DUAL
1	+Vin	+Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

Note:

* Unit is mm(inch).

DAE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

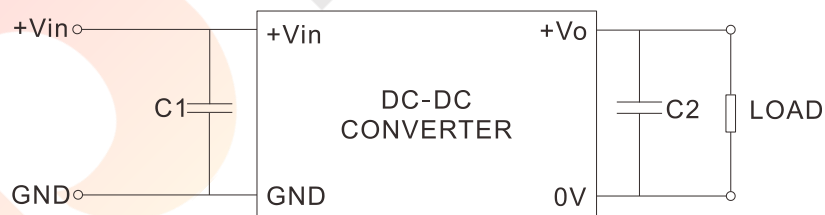
ELECTRICAL CURVE



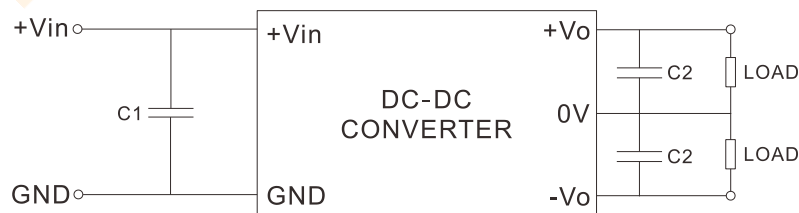
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



DAE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

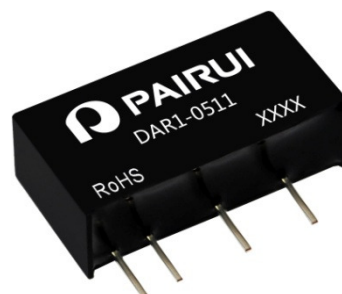
NOTES

INPUT VOLTAGE	CAPACITOR SELECTION				
	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	4.7 μ F	5VDC	10 μ F	\pm 5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F	\pm 9VDC	2.2 μ F
24VDC	1.0 μ F	12VDC	2.2 μ F	\pm 12VDC	1.0 μ F
--	--	15VDC	1.0 μ F	\pm 15VDC	1.0 μ F
--	--	24VDC	1.0 μ F	\pm 24VDC	0.47 μ F

DAR-1 SERIES, 1WATT, 1KVDC, REGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Single output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ Continuous short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAR1-0511	5(4.75~5.25)	5	20	200	66%
DAR1-0512		9	11	110	70%
DAR1-0513		12	8.3	83	71%
DAR1-0514		15	6.8	68	73%
DAR1-0515		24	4.2	42	68%
DAR1-1211	12(11.4~12.6)	5	20	200	67%
DAR1-1212		9	20	110	72%
DAR1-1213		12	11	83	70%
DAR1-1214		15	8.3	68	74%
DAR1-1215		24	6.8	42	68%
DAR1-1511	15(14.25~15.75)	5	20	200	67%
DAR1-1512		9	20	110	71%
DAR1-1513		12	11	83	71%
DAR1-1514		15	8.3	68	72%
DAR1-1515		24	6.8	42	68%
DAR1-2411	24(22.8~25.2)	5	4.2	200	68%
DAR1-2412		9	20	110	68%
DAR1-2413		12	20	83	73%
DAR1-2414		15	11	68	75%
DAR1-2415		24	8.3	42	68%

Notes: other input and output models may available on request.

ELECTRICAL

Line regulation	---	±0.25%
Load regulation	10% ~ 100% full load	±1%
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	---	Continuous Short circuit protection

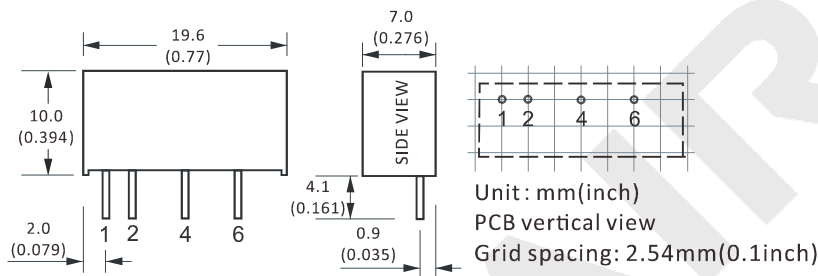
DAR-1 SERIES, 1WATT, 1KVDC, REGULATED

ELECTRICAL

Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL

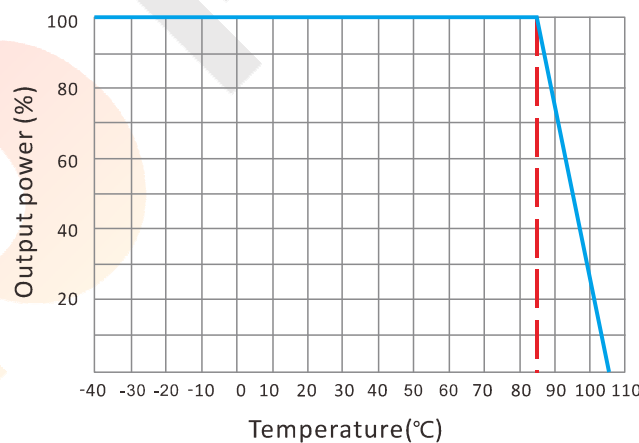


CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
4	0V
6	+Vo

Note:
* Unit is mm(inch).

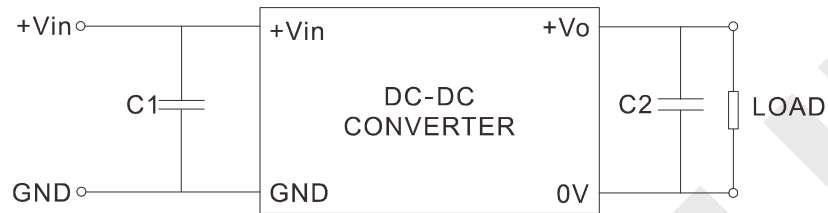
ELECTRICAL CURVE



DAR-1 SERIES, 1WATT, 1KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

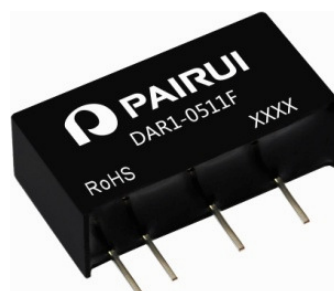


CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7 μ F	5VDC	10 μ F
12VDC	4.7 μ F	9VDC	4.7 μ F
15VDC	2.2 μ F	12VDC	2.2 μ F
24VDC	1.0 μ F	15VDC	1.0 μ F
--	--	24VDC	0.47 μ F

DAR-1F SERIES, 1WATT, 3KVDC, REGULATED
FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Fully regulated with low ripple and noise
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAR1-0511F	5(4.75~5.25)	5	20	200	66%
DAR1-0512F		9	11	110	70%
DAR1-0513F		12	8.3	83	72%
DAR1-0514F		15	6.8	68	73%
DAR1-0515F		24	4.2	42	70%
DAR1-1211F	12(11.4~12.6)	5	20	200	66%
DAR1-1212F		9	11	110	71%
DAR1-1213F		12	8.3	83	72%
DAR1-1214F		15	6.8	68	74%
DAR1-1215F		24	4.2	42	72%
DAR1-2411F	24(22.8~25.2)	5	20	200	67%
DAR1-2412F		9	11	110	72%
DAR1-2413F		12	8.3	83	73%
DAR1-2414F		15	6.8	68	74%
DAR1-2415F		24	4.2	42	72%

Notes: other input and output models may available on request.

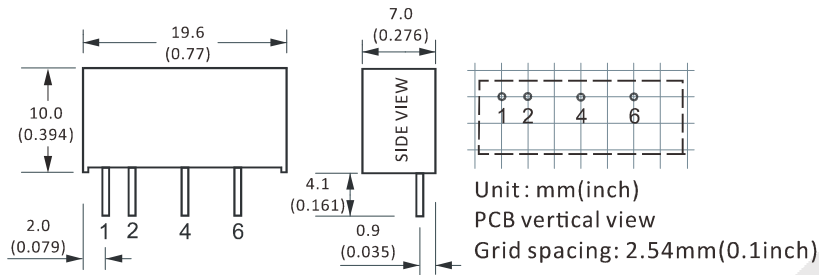
ELECTRICAL

Line regulation	---	±0.25%
Load regulation	10% ~ 100% full load	±1%
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	3000Vdc
Short circuit protection	---	Continuous short circuit protection
Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	2.4g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAR-1F SERIES, 1WATT, 3KVDC, REGULATED

MECHANICAL



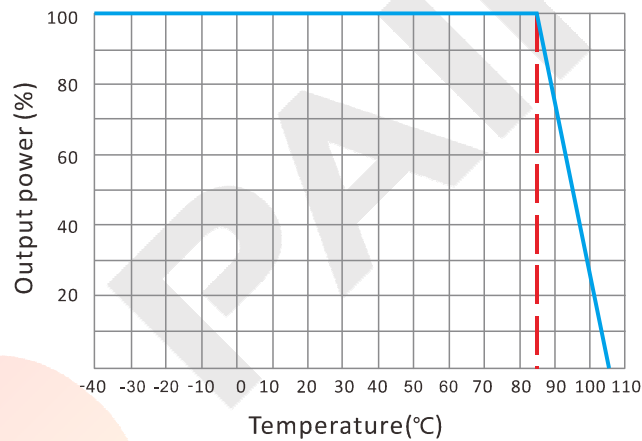
CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
4	0V
6	+Vo

Note:

* Unit is mm(inch).

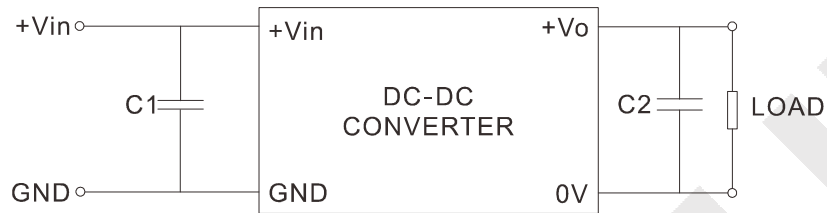
ELECTRICAL CURVE



DAR-1F SERIES, 1WATT, 3KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



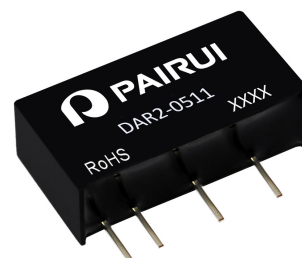
CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7 μ F	5VDC	10 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F
24VDC	1.0 μ F	12VDC	2.2 μ F
--	--	15VDC	1.0 μ F
--	--	24VDC	0.47 μ F

DAR-2 SERIES, 2WATT, 1KVDC, REGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Single output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAR2-0511	5(4.75~5.25)	5	40	400	70%
DAR2-0512		9	22.2	222	70%
DAR2-0513		12	16.7	167	70%
DAR2-0514		15	13.3	133	70%
DAR2-0515		24	8.3	83	70%
DAR2-1211	12(11.4~12.6)	5	40	400	70%
DAR2-1212		9	22.2	222	72%
DAR2-1213		12	16.7	167	70%
DAR2-1214		15	13.3	133	70%
DAR2-1215		24	8.3	83	72%
DAR2-1511	15(14.25~15.75)	5	40	400	71%
DAR2-1512		9	22.2	222	70%
DAR2-1513		12	16.7	167	72%
DAR2-1514		15	13.3	133	70%
DAR2-1515		24	8.3	83	72%
DAR2-2411	24(22.8~25.2)	5	40	400	71%
DAR2-2412		9	22.2	222	70%
DAR2-2413		12	16.7	167	72%
DAR2-2414		15	13.3	133	70%
DAR2-2415		24	8.3	83	72%

Notes: 1. other input and output models may available on request;

2. Add suffix "P" for continuous short circuit protection.

ELECTRICAL

Output voltage accuracy	---	±3% max.
Line regulation	---	±0.5% max.
Load regulation	10% ~ 100% full load	±1.5% max.
Isolation voltage	Leakage current < 1mA/1min.	1000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.

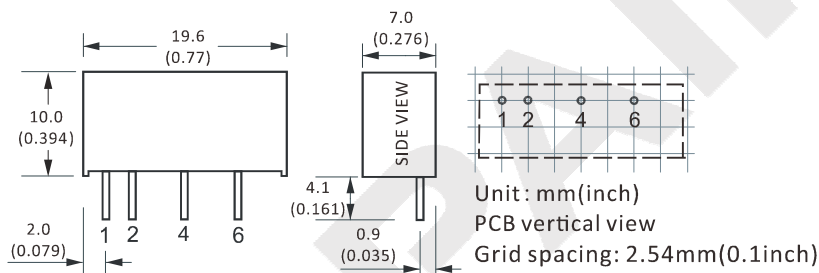
DAR-2 SERIES, 2WATT, 1KVDC, REGULATED

ELECTRICAL

Ripple & noise	Band width 20MHz	150mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	2.7g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



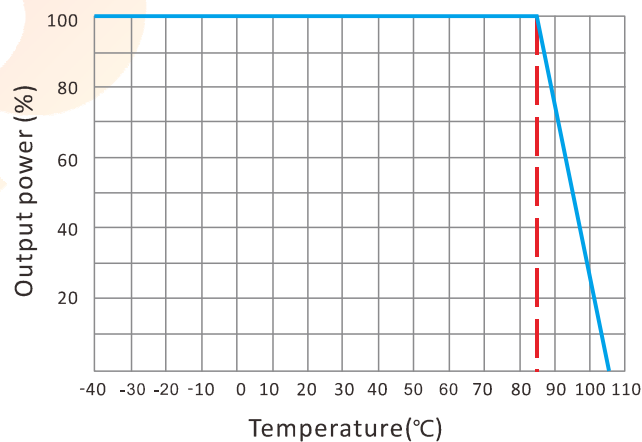
CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
4	0V
6	+Vo

Note:

* Unit is mm(inch).

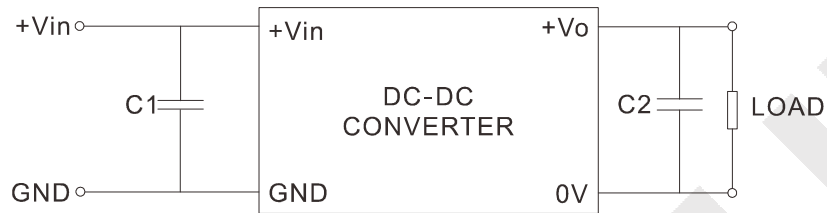
ELECTRICAL CURVE



DAR-2 SERIES, 2WATT, 1KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



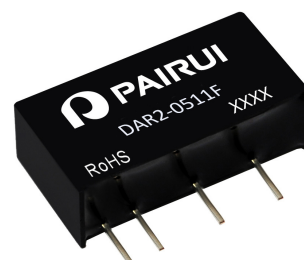
CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7 μ F	5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F
15VDC	1.0 μ F	12VDC	2.2 μ F
24VDC	0.47 μ F	15VDC	1.0 μ F
--	--	24VDC	0.47 μ F

DAR-2F SERIES, 2WATT, 3KVDC, REGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Single and dual output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAR2-0511F	5(4.75~5.25)	5	40	400	69%
DAR2-0513F		12	16.7	167	69%
DAR2-0514F		15	13.3	133	69%
DAR2-0515F		24	8.3	83	70%
DAR2-1211F	12(11.4~12.6)	5	40	400	69%
DAR2-1213F		12	16.7	167	69%
DAR2-1214F		15	13.3	133	70%
DAR2-1215F		24	8.3	83	72%
DAR2-1514F	15(14.25~15.75)	15	13.3	133	70%
DAR2-2411F	24(22.8~25.2)	5	40	400	71%
DAR2-2413F		12	16.7	167	70%
DAR2-2414F		15	13.3	133	70%
DAR2-2415F		24	8.3	83	70%

Notes: 1. other input and output models may available on request;
2. Add suffix "P" for continuous short circuit protection.

ELECTRICAL		
Output voltage accuracy	---	±3% max.
Line regulation	---	±0.5% max.
Load regulation	10% ~ 100% full load	±1.5% max.
Isolation voltage	Leakage current < 1mA/1min.	13000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Ripple & noise	Bend width 20MHz	150mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs

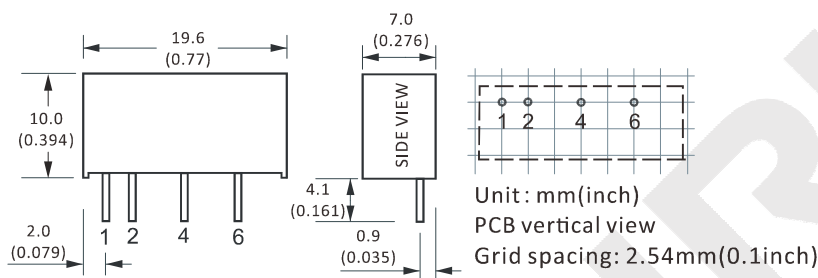
DAR-2F SERIES, 2WATT, 3KVDC, REGULATED

ELECTRICAL

Weight --- 2.8g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



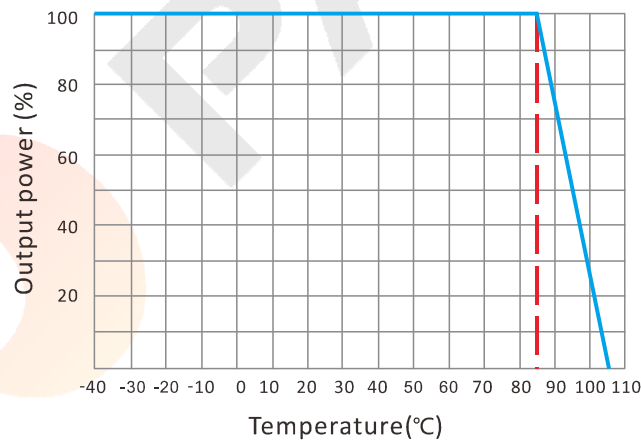
CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
4	-Vo
6	+Vo

Note:

* Unit is mm(inch).

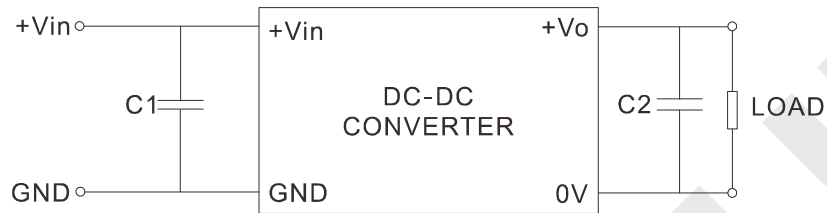
ELECTRICAL CURVE



DAR-2F SERIES, 2WATT, 3KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7 μ F	5VDC	4.7 μ F
12VDC	2.2 μ F	12VDC	2.2 μ F
24VDC	0.47 μ F	15VDC	1.0 μ F
--	--	24VDC	1.0 μ F

DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

FEATURES:

- ✓ Wide (2:1) input voltage range
- ✓ 1500Vdc isolation voltage
- ✓ Regulated single and dual output models
- ✓ With remote off function
- ✓ No overshoot when switch on & off
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-0511	5(4.5~9)	5	20	200	67%
DAV1-0512		9	11	110	72%
DAV1-0513		12	8.3	83	73%
DAV1-0514		15	6.8	68	72%
DAV1-0515		24	4.2	42	71%
DAV1-0521		±5	10	100	67%
DAV1-0522		±9	5.5	55	71%
DAV1-0523		±12	4.0	40	72%
DAV1-0524		±15	3.3	33	73%
DAV1-0525		±24	2.1	21	72%
DAV1-1211	12(9~18)	5	20	200	75%
DAV1-1212		9	11	110	77%
DAV1-1213		12	8.3	83	79%
DAV1-1214		15	6.8	68	80%
DAV1-1215		24	4.2	42	78%
DAV1-1221		±5	10	100	73%
DAV1-1222		±9	5.5	55	74%
DAV1-1223		±12	4.0	40	78%
DAV1-1224		±15	3.3	33	77%
DAV1-1225		±24	2.1	21	76%
DAV1-2411	24(18~36)	5	20	200	77%
DAV1-2412		9	11	110	79%
DAV1-2413		12	8.3	83	80%
DAV1-2414		15	6.8	68	80%
DAV1-2415		24	4.2	42	80%
DAV1-2421		±5	10	100	76%


DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-2422	24(18~36)	±9	5.5	55	78%
DAV1-2423		±12	4.0	40	79%
DAV1-2424		±15	3.3	33	78%
DAV1-2425		±24	2.1	21	78%
DAV1-4811		48(36~72)	5	20	200
DAV1-4812	9		11	110	78%
DAV1-4813	12		8.3	83	79%
DAV1-4814	15		6.8	68	80%
DAV1-4815	24		4.2	42	80%
DAV1-4821	±5		10	100	75%
DAV1-4822	±9		5.5	55	78%
DAV1-4823	±12		4.0	40	79%
DAV1-4824	±15		3.3	33	75%
DAV1-4825	±24		2.1	21	76%

Notes: other input and output models may available on request.

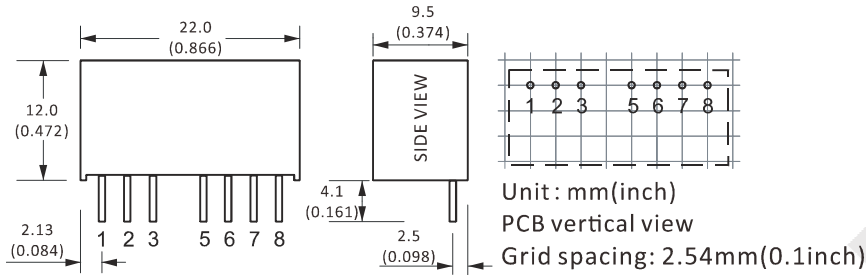
ELECTRICAL

Output voltage accuracy (Full voltage, full load)	+Vo	±±2.0%
	-Vo	±±3.0%
	Vo(no-load)	Main: ±±3.0%, Aux.:±±5.0%
Line regulation	Nominal load, full voltage	Main: ±±0.2%, Aux.:±±5.0%
Load regulation	10% ~ 100% rated load	Main: ±±0.5%, Aux.:±±0.75%
Ripple and noise	Nominal load and voltage, 20MHz bandwidth	100mVp-p max.
Temperature coefficient	Full load	±0.03%/°C
Continuous short circuit protection	---	Auto-recovery
Operating frequency	---	250KHz Typ.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	Humidity 5%~95%RH non-condensing	-55°C to +125°C
Isolation voltage	≤0.5mA / 1min	1500Vdc
MTBF	MIL-HDBK-217F@25°C	1000KHrs
Weight	---	4.8g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

MECHANICAL



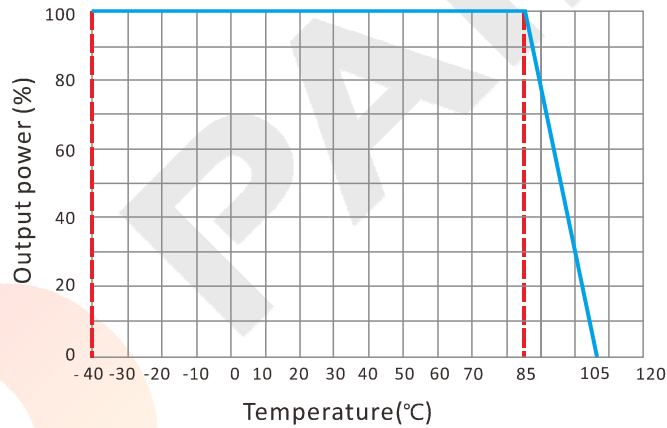
CONNECTION

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vo	+Vo
7	0V	0V
8	CS	-Vo

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

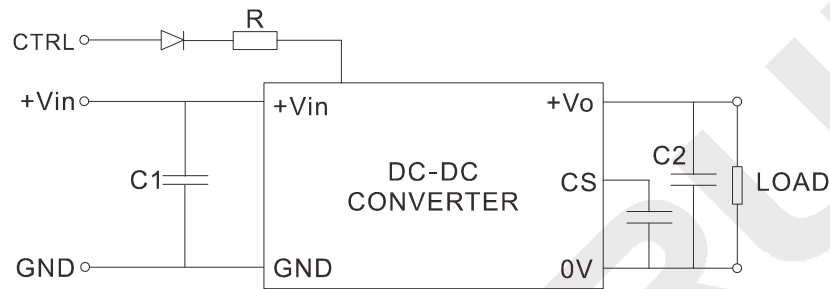


DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

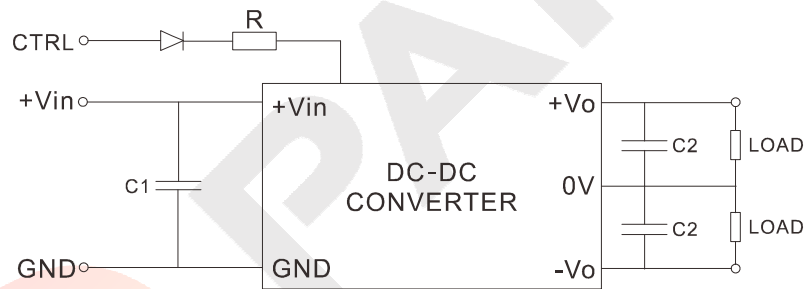
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	47 μ F	5VDC	330 μ F	\pm 5VDC	100 μ F
12VDC	22 μ F	9VDC	220 μ F	\pm 9VDC	68 μ F
24VDC	10 μ F	12VDC	100 μ F	\pm 12VDC	47 μ F
48VDC	10 μ F	15VDC	100 μ F	\pm 15VDC	47 μ F
--	--	24VDC	47 μ F	\pm 24VDC	10 μ F

DAV-1F SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

FEATURES:

- ✓ Wide (2:1) input voltage range
- ✓ 3000Vdc isolation voltage
- ✓ Regulated single and dual output models
- ✓ With remote off function
- ✓ No overshoot when switch on & off
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-0511F	5(4.5~9)	5	20	200	72%
DAV1-0512F		9	11	110	74%
DAV1-0513F		12	8.3	83	74%
DAV1-0514F		15	6.8	68	74%
DAV1-0515F		24	4.2	42	74%
DAV1-0521F		±5	10	100	72%
DAV1-0522F		±9	5.5	55	74%
DAV1-0523F		±12	4.0	40	74%
DAV1-0524F		±15	3.3	33	74%
DAV1-0525F		±24	2.1	21	74%
DAV1-1211F	12(9~18)	5	20	200	78%
DAV1-1212F		9	11	110	78%
DAV1-1213F		12	8.3	83	78%
DAV1-1214F		15	6.8	68	80%
DAV1-1215F		24	4.2	42	78%
DAV1-1221F		±5	10	100	78%
DAV1-1222F		±9	5.5	55	78%
DAV1-1223F		±12	4.0	40	80%
DAV1-1224F		±15	3.3	33	80%
DAV1-1225F		±24	2.1	21	78%
DAV1-2411F	24(18~36)	5	20	200	78%
DAV1-2412F		9	11	110	78%
DAV1-2413F		12	8.3	83	80%
DAV1-2414F		15	6.8	68	80%
DAV1-2415F		24	4.2	42	78%
DAV1-2421F		±5	10	100	78%


DAV-1F SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-2422F	24(18~36)	±9	5.5	55	80%
DAV1-2423F		±12	4.0	40	80%
DAV1-2424F		±15	3.3	33	80%
DAV1-2425F		±24	2.1	21	78%
DAV1-4811F	48(36~72)	5	20	200	78%
DAV1-4812F		9	11	110	80%
DAV1-4813F		12	8.3	83	82%
DAV1-4814F		15	6.8	68	82%
DAV1-4815F		24	4.2	42	80%
DAV1-4821F		±5	10	100	80%
DAV1-4822F		±9	5.5	55	80%
DAV1-4823F		±12	4.0	40	82%
DAV1-4824F		±15	3.3	33	82%
DAV1-4825F		±24	2.1	21	80%

Notes: other input and output models may available on request.

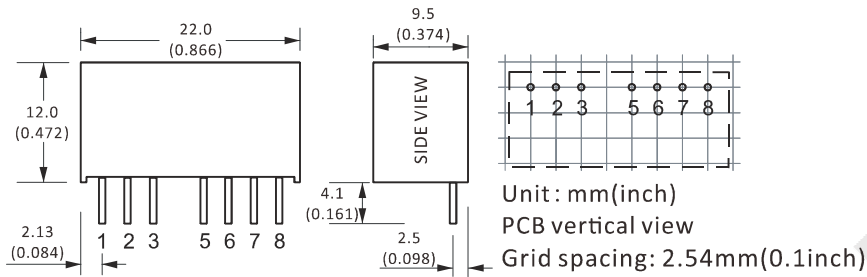
ELECTRICAL

Output voltage accuracy (Full voltage, full load)	+Vo	≤±2.0%
	-Vo	≤±3.0%
	Vo(no-load)	Main: ≤±3.0%, Aux.: ≤±5.0%
Line regulation	Nominal load, full voltage	Main: ≤±0.2%, Aux.: ≤±5.0%
Load regulation	10% ~ 100% rated load	Main: ≤±0.5%, Aux.: ≤±0.75%
Ripple and noise	Nominal load and voltage, 20MHz bandwidth	100mVp-p max.
Temperature coefficient	Full load	±0.03%/°C
Continuous short circuit protection	---	Auto-recovery
Operating frequency	---	250KHz Typ.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	Humidity 5%~95%RH non-condensing	-55°C to +125°C
Isolation voltage	≤0.5mA / 1min	3000Vdc
MTBF	MIL-HDBK-217F@25°C	1000KHrs
Weight	---	4.8g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DAV-1F SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

MECHANICAL



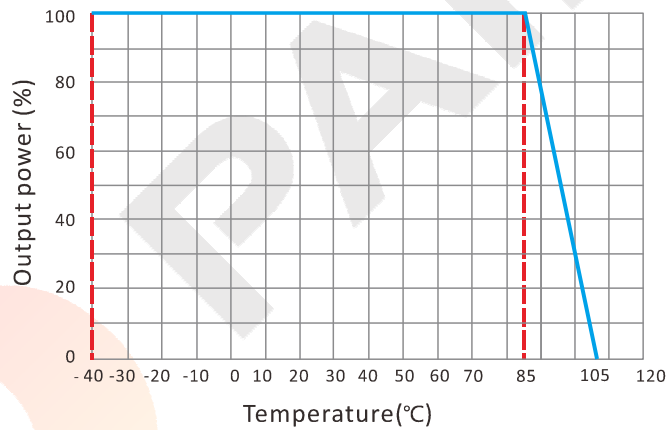
CONNECTION

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vo	+Vo
7	0V	0V
8	CS	-Vo

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

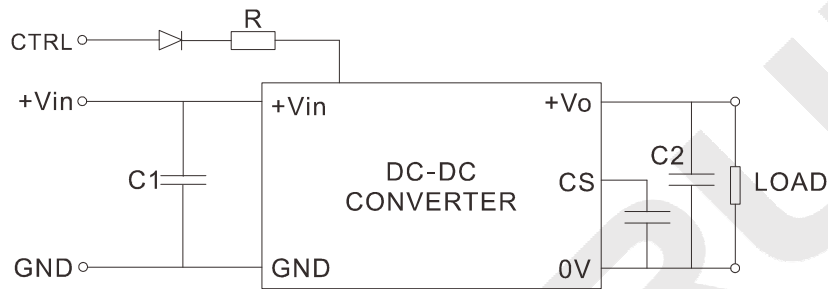


DAV-1F SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE

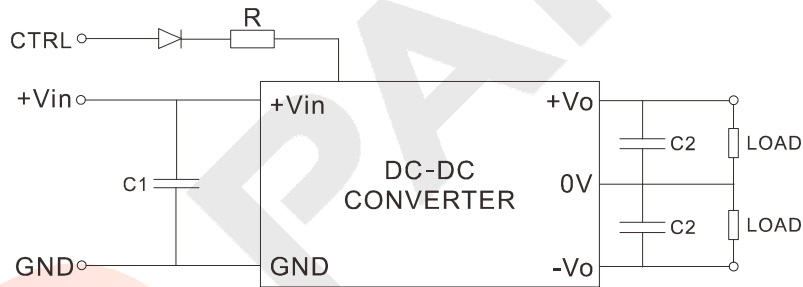
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	47 μ F	5VDC	330 μ F	\pm 5VDC	100 μ F
12VDC	22 μ F	9VDC	220 μ F	\pm 9VDC	68 μ F
24VDC	10 μ F	12VDC	100 μ F	\pm 12VDC	47 μ F
48VDC	10 μ F	15VDC	100 μ F	\pm 15VDC	47 μ F
--	--	24VDC	47 μ F	\pm 24VDC	10 μ F

DAV-1W SERIES, 1WATT, REGULATED WITH 4:1 INPUT RANGE

FEATURES:

- ✓ Wide (4:1) input voltage range
- ✓ 1500Vdc isolation voltage
- ✓ Regulated single and dual output models
- ✓ Continuous short circuit protection
- ✓ High efficiency, low ripple & noise
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1W-2411	24(9~36)	5	20	200	73%
DAV1W-2412		9	11	111	74%
DAV1W-2413		12	8	83	76%
DAV1W-2414		15	7	67	77%
DAV1W-2415		24	4	42	78%
DAV1W-2421		±5	10	100	72%
DAV1W-2422		±9	6	56	74%
DAV1W-2423		±12	4	42	75%
DAV1W-2424		±15	3	33	77%
DAV1W-2425		±24	2	21	78%
DAV1W-4811	48(18~72)	5	20	200	70%
DAV1W-4812		9	11	111	72%
DAV1W-4813		12	8	83	73%
DAV1W-4814		15	7	67	75%
DAV1W-4815		24	4	42	77%
DAV1W-4821		±5	10	100	70%
DAV1W-4822		±9	6	56	71%
DAV1W-4823		±12	4	42	73%
DAV1W-4824		±15	3	33	75%
DAV1W-4825		±24	2	21	77%

Notes: other input and output models may available on request.

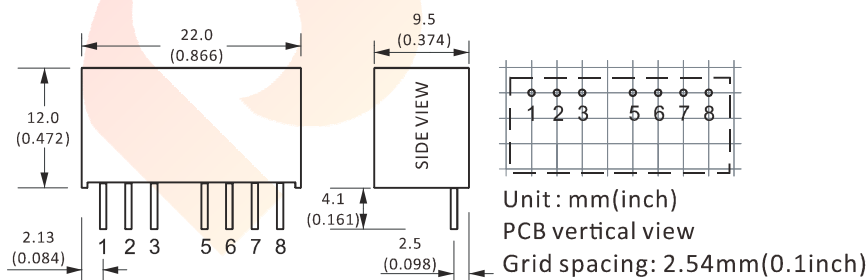
DAV-1W SERIES, 1WATT, REGULATED WITH 4:1 INPUT RANGE

ELECTRICAL

Output voltage accuracy (Full voltage, full load)	+Vo -Vo	≤±2% max. ≤±3% max.
Line regulation	Nominal load, full voltage	±0.5% max.
Load regulation	10% ~ 100% rated load	±1% max.
Ripple and noise	Nominal load and voltage, 20MHz bandwidth	100mVp-p max.
Temperature coefficient	Full load	±0.03%/°C
Continuous short circuit protection	---	Auto-recovery
Operating frequency	---	100KHz Typ.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	Humidity 5%~95%RH non-condensing	-55°C to +125°C
Isolation voltage	≤0.5mA / 1min	1500Vdc
Isolation resistance	---	1000mΩ
MTBF	MIL-HDBK-217F@25°C	1000KHrs
Weight	---	5.0g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

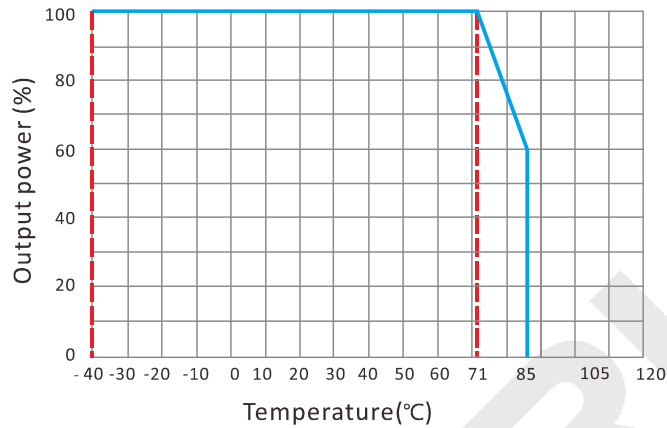
PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vo	+Vo
7	0V	0V
8	CS	-Vo

Note:

* Unit is mm(inch).

DAV-1W SERIES, 1WATT, REGULATED WITH 4:1 INPUT RANGE

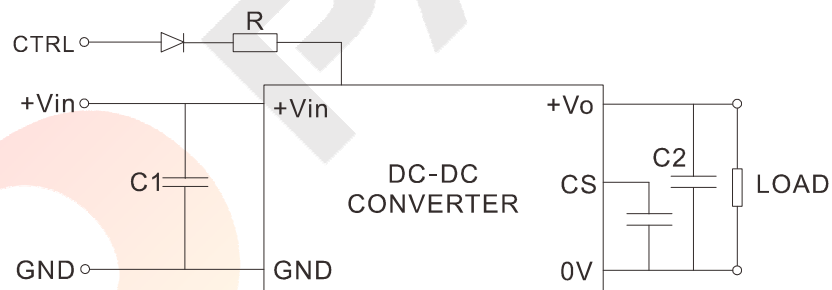
ELECTRICAL CURVE



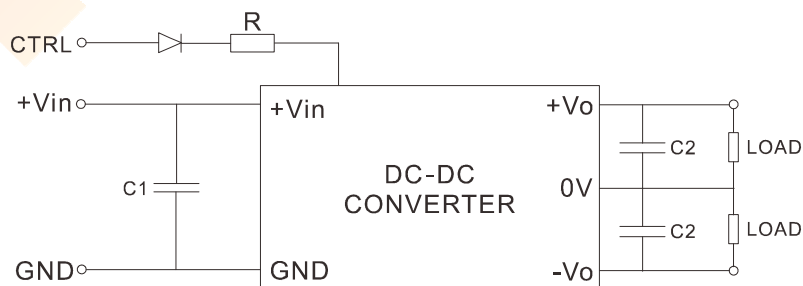
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



DAV-1W SERIES, 1WATT, REGULATED WITH 4:1 INPUT RANGE

NOTES

CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
24VDC	100 μ F	5VDC	470 μ F	\pm 5VDC	220 μ F
48VDC	47 μ F	9VDC	220 μ F	\pm 9VDC	100 μ F
--	--	12VDC	100 μ F	\pm 12VDC	47 μ F
--	--	15VDC	100 μ F	\pm 15VDC	47 μ F
--	--	24VDC	47 μ F	\pm 24VDC	22 μ F

DBE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Compact size
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.	
			Min.	Max.		
DBE1-0310	3.3(2.97~3.63)	3.3	30	300	72%	
DBE1-0311		5	20	200	74%	
DBE1-0510	5(4.5~5.5)	3.3	30	300	72%	
DBE1-0511		5	20	200	70%	
DBE1-0516		7.2	13.8	138	70%	
DBE1-0512		9	11	110	78%	
DBE1-0513		12	8.3	83	79%	
DBE1-0514		15	6.8	68	80%	
DBE1-0515		24	4.2	42	78%	
DBE1-1210		12(10.8~13.2)	3.3	30	300	72%
DBE1-1211			5	20	200	71%
DBE1-1212	9		11	110	76%	
DBE1-1213	12		8.3	83	78%	
DBE1-1214	15		6.8	68	80%	
DBE1-1215	24		4.2	42	78%	
DBE1-1511	15(13.5~16.5)	5	20	200	71%	
DBE1-1514		15	6.8	68	78%	
DBE1-2410	24(21.6~26.4)	3.3	30	300	71%	
DBE1-2411		5	20	200	73%	
DBE1-2412		9	11	110	78%	
DBE1-2413		12	8.3	83	79%	
DBE1-2414		15	6.8	68	80%	
DBE1-2415		24	4.2	42	80%	

Notes: 1. other input and output models may available on request;
 2. Add suffix "P" for short circuit protection.

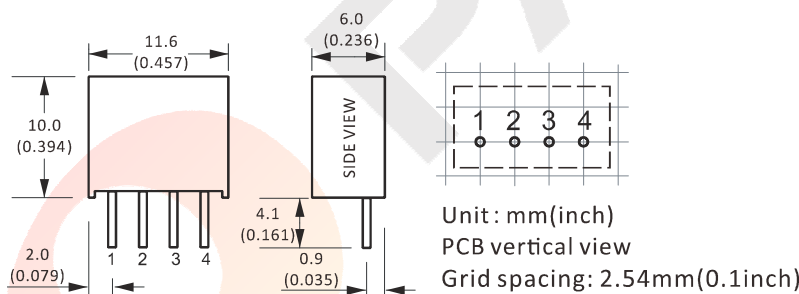
DBE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

ELECTRICAL

Output voltage accuracy	---	±5% max.
Line regulation	---	± 1.2%
Load regulation	10% ~ 100% full load	15% max.
Switching frequency	---	100KHz
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	Only available for "DBE1-xx1xP" product	Continuous, auto-recovery
Operating temperature range	---	-40°C to +85°C
Storage temperature range	5%~95%, non-condensing	-40°C to +85°C
Temperature coefficient	---	±0.03%/°C
MTBF	MIL-HDBK-217F@25°C	3500KHrs
Weight	---	1.3g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



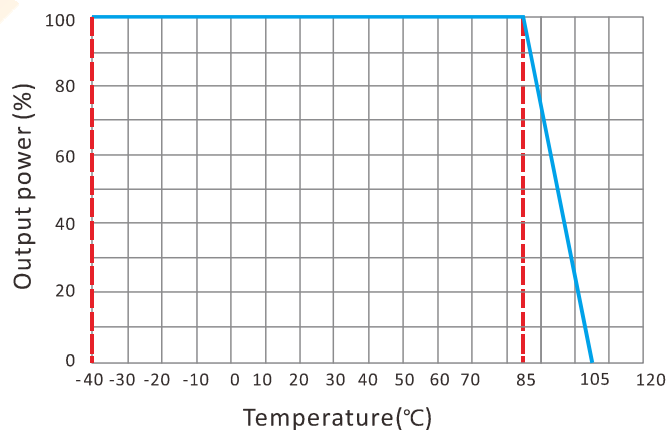
CONNECTION

PIN #	SINGLE
1	GND
2	+Vin
3	0V
4	+Vo

Note:

* Unit is mm(inch).

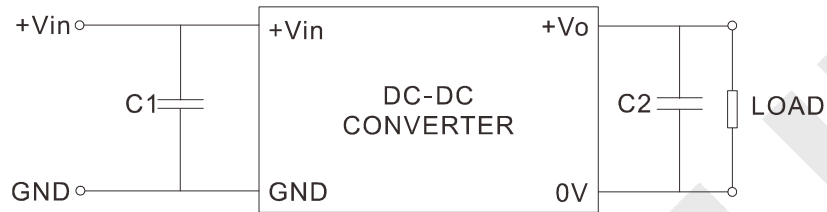
TEMPERATURE PROFILE



DBE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
3.3VDC	4.7 μ F	3.3VDC	10 μ F
5VDC	4.7 μ F	5VDC	10 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F
15VDC	2.2 μ F	12VDC	2.2 μ F
24VDC	1.0 μ F	15VDC	1.0 μ F

DBE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Compact size
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBE1-0310F	3.3(2.97~3.63)	3.3	30	300	76%
DBE1-0311F		5	20	200	77%
DBE1-0510F	5(4.5~5.5)	3.3	30	300	76%
DBE1-0511F		5	20	200	80%
DBE1-0512F		9	11	110	81%
DBE1-0513F		12	8.3	83	77%
DBE1-0514F		15	6.8	68	79%
DBE1-0515F		24	4.2	42	78%
DBE1-1210F	12(10.8~13.2)	3.3	30	300	77%
DBE1-1211F		5	20	200	79%
DBE1-1212F		9	11	110	79%
DBE1-1213F		12	8.3	83	81%
DBE1-1214F		15	6.8	68	82%
DBE1-1215F		24	4.2	42	78%
DBE1-1511F	15(13.5~16.5)	5	20	200	70%
DBE1-1514F		15	6.8	68	78%
DBE1-2410F	24(21.6~26.4)	3.3	30	300	74%
DBE1-2411F		5	20	200	70%
DBE1-2412F		9	11	110	77%
DBE1-2413F		12	8.3	83	80%
DBE1-2414F		15	6.8	68	78%
DBE1-2415F		24	4.2	42	80%

Notes: 1. other input and output models may available on request;

2. Add suffix "P" for short circuit protection.

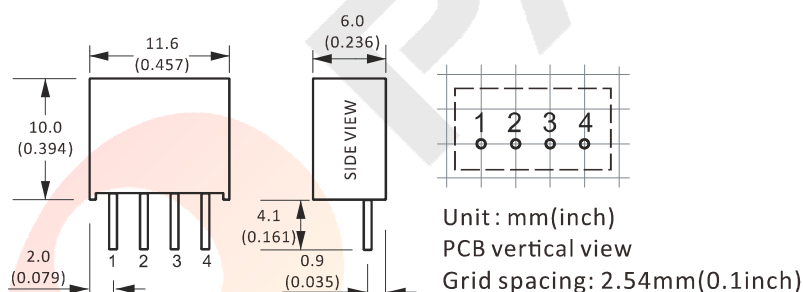
DBE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

ELECTRICAL

Output voltage accuracy	---	±5% max.
Line regulation	---	± 1.5% max.
Load regulation	10% ~ 100% full load	15% max.
Switching frequency	---	100KHz typ.
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	3000Vdc
Short circuit protection	---	1S
Operating temperature range	---	-40°C to +85°C
Storage temperature range	5%~95%, non-condensing	-55°C to +125°C
Temperature coefficient	---	±0.03%/°C
MTBF	MIL-HDBK-217F@25°C	3500KHrs
Weight	---	1.3g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



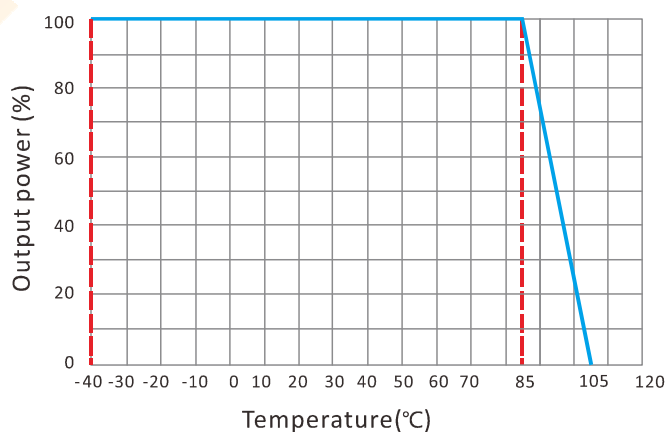
CONNECTION

PIN #	SINGLE
1	GND
2	+Vin
3	0V
4	+Vo

Note:

* Unit is mm(inch).

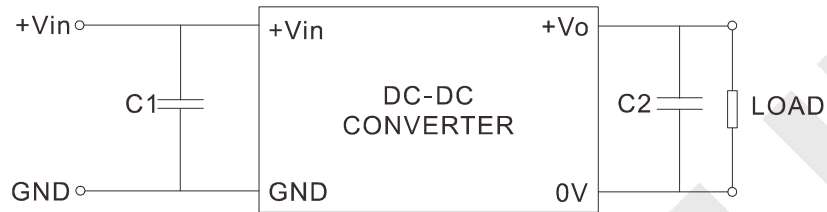
TEMPERATURE PROFILE



DBE-1F SERIES, 1WATT, 3KVDC, UNREGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
3.3VDC	4.7 μ F	3.3VDC	10 μ F
5VDC	4.7 μ F	5VDC	10 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F
15VDC	2.2 μ F	12VDC	2.2 μ F
24VDC	1.0 μ F	15VDC	1.0 μ F
--	--	24VDC	0.47 μ F

DBE-2 SERIES, 2WATT, 1.5KVDC, UNREGULATED

FEATURES:

- ✓ 1500Vdc isolation voltage
- ✓ Single output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ Short circuit protection
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBE2-0310	3.3(3.0~3.6)	3.3	40	400	73%
DBE2-0311		5	40	400	78%
DBE2-0312		9	22.2	222	72%
DBE2-0313		12	16.7	167	72%
DBE2-0314		15	13.3	133	72%
DBE2-0510	5(4.5~5.5)	3.3	40	400	74%
DBE2-0511		5	40	400	80%
DBE2-0512		9	22.2	222	84%
DBE2-0513		12	16.7	167	83%
DBE2-0514		15	13.3	133	84%
DBE2-1210	12(10.8~13.2)	3.3	40	400	72%
DBE2-1211		5	40	400	81%
DBE2-1212		9	22.2	222	82%
DBE2-1213		12	16.7	167	85%
DBE2-1214		15	13.3	133	82%
DBE2-1510	15(13.5~16.5)	3.3	40	400	72%
DBE2-1511		5	40	400	80%
DBE2-1512		9	22.2	222	72%
DBE2-1513		12	16.7	167	72%
DBE2-1514		15	13.3	133	80%
DBE2-2410	24(21.6~26.4)	3.3	40	400	76%
DBE2-2411		5	40	400	80%
DBE2-2412		9	22.2	222	83%
DBE2-2413		12	16.7	167	84%
DBE2-2414		15	13.3	133	72%

Notes: 1. other input and output models may available on request;

2. Add suffix "P" for continuous short circuit protection.

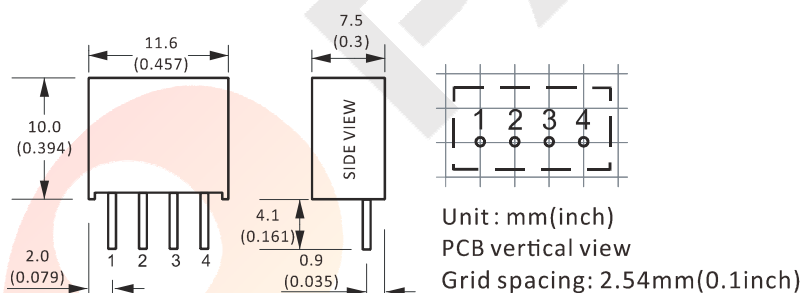
DBE-2 SERIES, 2WATT, 1.5KVDC, UNREGULATED

ELECTRICAL

Line regulation	---	±1.5% max.
Load regulation	10% ~ 100% full load	15% max.
Isolation voltage	Leakage current < 1mA/1min.	1500Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	100KHz typ.
Ripple & noise	Band width 20MHz	100mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	1.8g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



CONNECTION

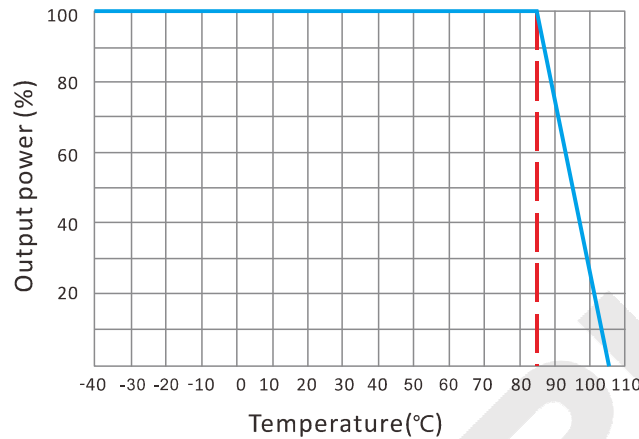
PIN #	SINGLE
1	GND
2	+Vin
3	0V
4	+Vo

Note:

* Unit is mm (inch).

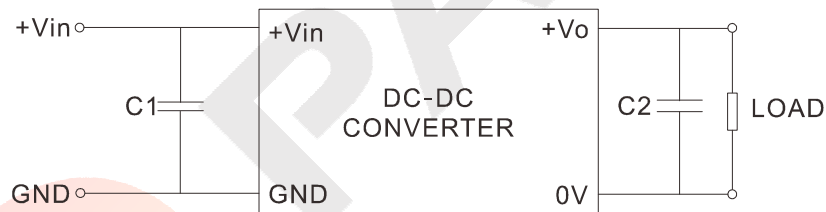
DBE-2 SERIES, 2WATT, 1.5KVDC, UNREGULATED

ELECTRICAL CURVE



NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
3.3VDC	4.7 μ F	3.3VDC	4.7 μ F
5VDC	4.7 μ F	5VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	2.2 μ F
15VDC	2.2 μ F	12VDC	1.0 μ F
24VDC	1.0 μ F	15VDC	0.47 μ F

DBR-1F SERIES, 1WATT, 3KVDC, REGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Fully regulated with low ripple and noise
- ✓ Dual output models
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBR1-0521F	5(4.75~5.25)	±5	10	100	54%
DBR1-0522F		±9	5.5	55	63%
DBR1-0523F		±12	4	40	63%
DBR1-0524F		±15	3.3	33	65%
DBR1-0525F		±24	2.1	21	62%
DBR1-1221F	12(11.4~12.6)	±5	10	100	56%
DBR1-1222F		±9	5.5	55	62%
DBR1-1223F		±12	4	40	65%
DBR1-1224F		±15	3.3	33	66%
DBR1-1225F		±24	2.1	21	62%
DBR1-2421F	24(22.8~25.2)	±5	10	100	54%
DBR1-2422F		±9	5.5	55	62%
DBR1-2423F		±12	4	40	64%
DBR1-2424F		±15	3.3	33	66%
DBR1-2425F		±24	2.1	21	62%

Notes: other input and output models may available on request.

ELECTRICAL

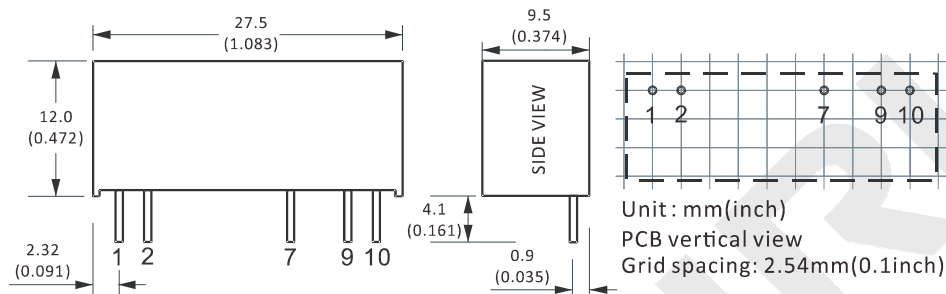
Line regulation	---	±0.25%
Load regulation	10% ~ 100% full load	±1%
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	3000Vdc
Short circuit protection	---	Continuous short circuit protection
Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	4.5g

DBR-1F SERIES, 1WATT, 3KVDC, REGULATED

ELECTRICAL

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



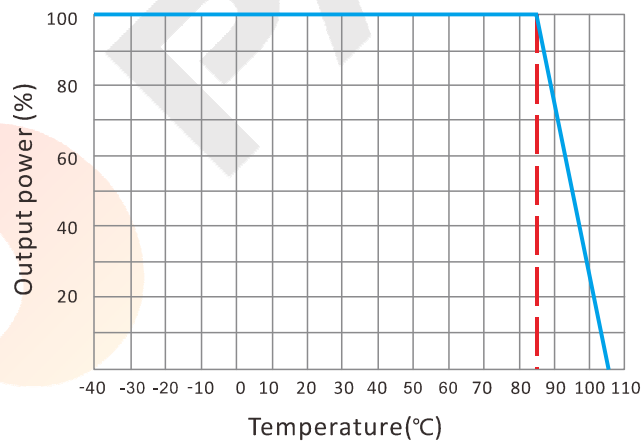
CONNECTION

PIN #	DUAL
1	+Vin
2	GND
7	+Vo
9	-Vo
10	0V

Note:

* Unit is mm(inch).

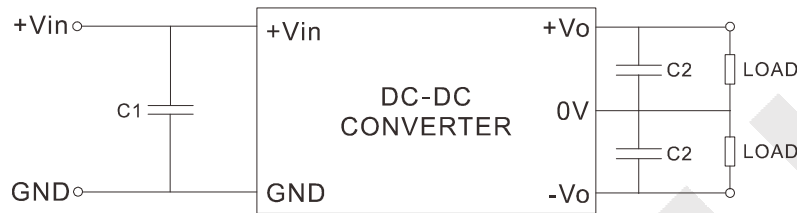
ELECTRICAL CURVE



DBR-1F SERIES, 1WATT, 3KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7 μ F	\pm 5VDC	4.7 μ F
12VDC	2.2 μ F	\pm 9VDC	2.2 μ F
24VDC	0.47 μ F	\pm 12VDC	1.0 μ F
--	--	\pm 15VDC	0.47 μ F
--	--	\pm 24VDC	0.47 μ F

DBR-1 SERIES, 1WATT, 1KVDC, REGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Fully regulated with low ripple and noise
- ✓ Dual output models
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBR1-0521	5(4.75~5.25)	±5	10	100	54%
DBR1-0522		±9	5.5	55	63%
DBR1-0523		±12	4	40	63%
DBR1-0524		±15	3.3	33	65%
DBR1-0525		±24	2.1	21	62%
DBR1-1221	12(11.4~12.6)	±5	10	100	56%
DBR1-1222		±9	5.5	55	62%
DBR1-1223		±12	4	40	65%
DBR1-1224		±15	3.3	33	66%
DBR1-1225		±24	2.1	21	62%
DBR1-2421	24(22.8~25.2)	±5	10	100	54%
DBR1-2422		±9	5.5	55	62%
DBR1-2423		±12	4	40	64%
DBR1-2424		±15	3.3	33	66%
DBR1-2425		±24	2.1	21	62%

Notes: other input and output models may available on request.

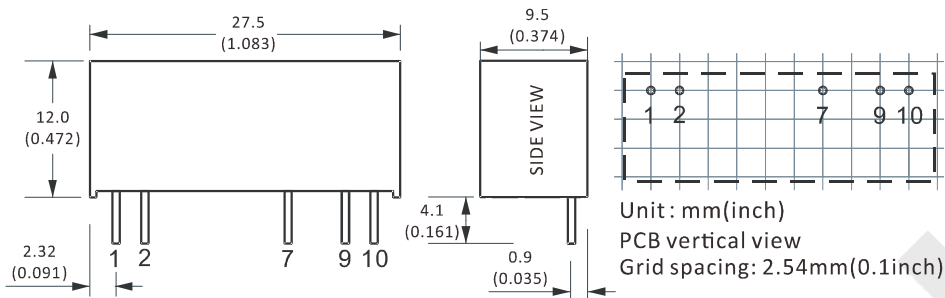
ELECTRICAL

Line regulation	---	±0.25%
Load regulation	10% ~ 100% full load	±1%
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	---	Continuous short circuit protection
Operating temperature range	---	-40°C to +85°C
MTBF	---	3500KHrs
Weight	---	4.5g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

DBR-1 SERIES, 1WATT, 1KVDC, REGULATED

MECHANICAL



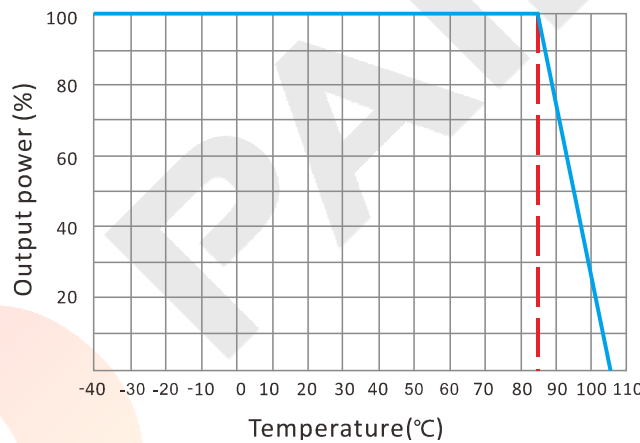
CONNECTION

PIN #	DUAL
1	+Vin
2	GND
7	+Vo
9	-Vo
10	0V

Note:

* Unit is mm(inch).

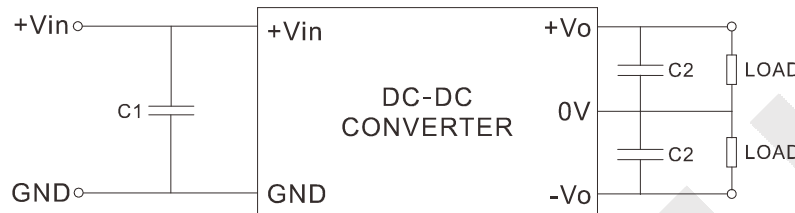
ELECTRICAL CURVE



DBR-1 SERIES, 1WATT, 1KVDC, REGULATED

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



CAPACITOR SELECTION

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--	--	\pm 15VDC	0.47 μ F
--	--	\pm 24VDC	0.47 μ F