

DC-DC Converter SIP-Package

SCHMID-M

SDAE-3 SERIES, 3WATT, 3KVDC, UNREGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ High efficiency
- ✓ Operating temperature range -40°C to +85 °C
- ✓ Short circuit protection



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
SDAE3-0511F	5(4.5~5.5)	5	60	600	80%
SDAE3-0512F		9	33.3	333	82%
SDAE3-0513F		12	25	250	83%
SDAE3-0514F		15	20	200	83%
SDAE3-0515F		24	12.5	125	81%
SDAE3-1211F	12(10.8~13.2)	5	60	600	80%
SDAE3-1212F		9	33.3	333	82%
SDAE3-1213F		12	25	250	83%
SDAE3-1214F		15	20	200	83%
SDAE3-1215F		24	12.5	125	78%
SDAE3-1511F	15(13.5~16.5)	5	60	600	80%
SDAE3-1512F		9	33.3	333	81%
SDAE3-1513F		12	25	250	81%
SDAE3-1514F		15	20	200	83%
SDAE3-1515F		24	12.5	125	78%
SDAE3-2411F	24(21.6~26.4)	5	60	600	80%
SDAE3-2412F		9	33.3	333	82%
SDAE3-2413F		12	25	250	84%
SDAE3-2414F		15	20	200	85%
SDAE3-2415F		24	12.5	125	84%

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

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

ELECTRICAL

Line regulation	---	1.5% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	3000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	100KHz typ.

Date: 11/23/2015

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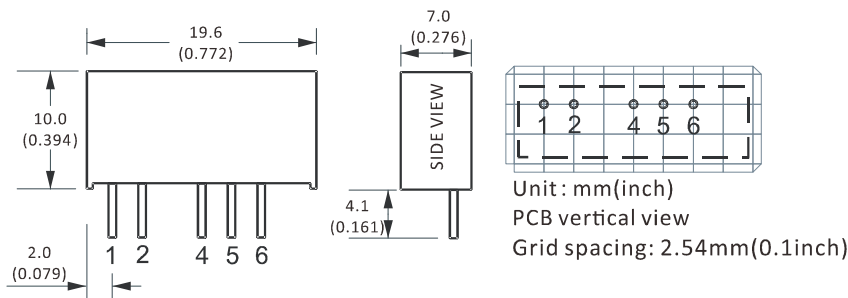
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ELECTRICAL

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	---	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



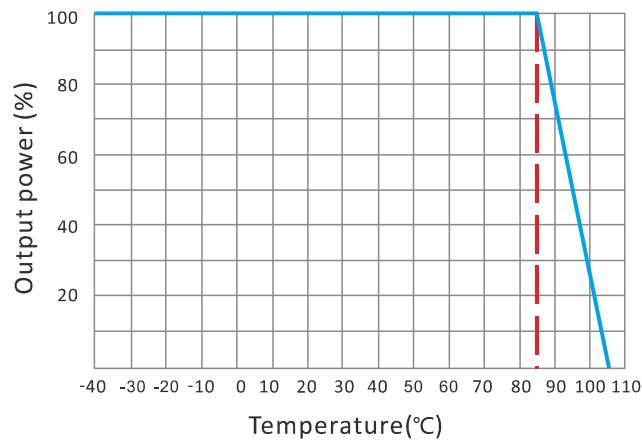
CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
4	0V
5	No Pin
6	+Vo

Note:

* Unit is mm(inch).

TEMPERATURE PROFILE

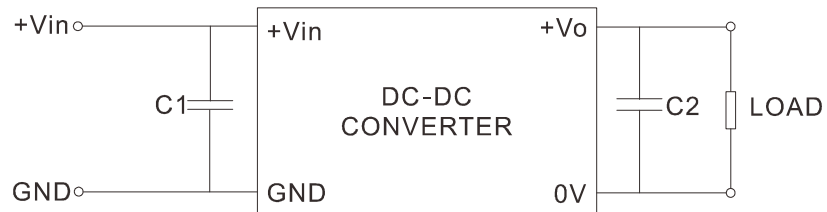


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NOTES

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	2.2 μ F
15VDC	2.2 μ F	12VDC	1.0 μ F
24VDC	1.0 μ F	15VDC	1.0 μ F
--	--	24VDC	0.47 μ F

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