

ALL PSU DATA SHEET

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1 Watt, Surface Mount Miniature DC-DC Converter

SMD SERIES PSD-xxxxS 1KV ISOLATED 1W UNREGULATED SINGLE OUTPUT

Available Inputs: 3.3, 5 and 12 VDC

For Other Input Versions Please Enquire.

Available Outputs: Single 3.3, 5, 9, 12 and 15 VDC

For Other Output Versions Please Enquire.

Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range	Nominal Voltage +/- 10 %
Filter	Capacitors

Isolation Specifications

Rated voltage	1000 VDC
Resistance	1000 MOhm

Output Specifications

Voltage accuracy	+/- 5 %, max.
Ripple and noise (at 20 MHz BW)	100 mV p-p, max.
Short circuit protection	Momentary
Line voltage regulation	+/- 1.2 % / 1.0 % of Vin
Load voltage regulation	+/- 14 %, load = 20 ~ 100 % max.
Temperature coefficient	+/- 0.02 % / °C

General Specifications

Efficiency	70 - 83 %
Switching frequency	100 KHz, typ.

Environmental Specifications

Operating temperature (ambient)	- 40° C to + 85° C
Storage temperature	- 55 °C to + 125 °C
Derating Above 85°C	Linear to Zero at 100°C
Humidity	Up to 90 %, non condensing
Cooling	Free air convection

Physical Characteristics

Case material	Non conductive black plastic
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Lead temp. 1.5 mm from case for 10 sec.	+300° C
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Peak reflow temp. with CECC 00802 profile	+280° C
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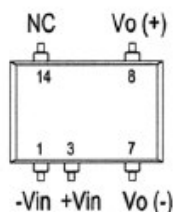
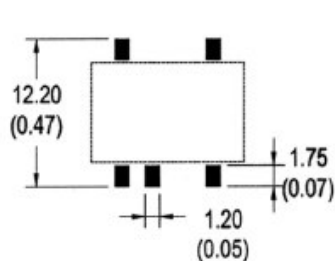
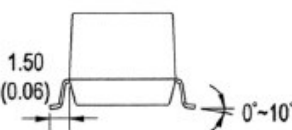
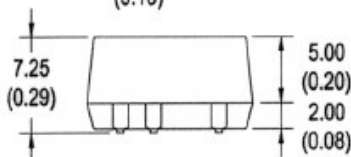
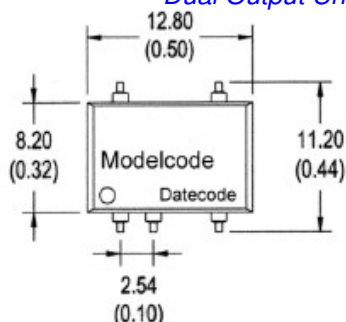
Cont.....1 Watt, Surface Mount Miniature DC-DC Converter

SMD SERIES PSD-xxxxS 1KV ISOLATED 1W UNREGULATED SINGLE OUTPUT

Partnumbers (Non standard versions may be available)

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY Typical %
PSD-3R305S	3.3	450	5	200	70
PSD-053R3S	5	171	3.3	200	77
PSD-0505S	5	246	5	200	81
PSD-0509S	5	254	9	110	78
PSD-0512S	5	252	12	84	80
PSD-123R3S	12	73	3.3	200	75
PSD-1205S	12	100	5	200	81
PSD-1209S	12	105	9	110	78
PSD-1212S	12	103	12	84	81
PSD-1215S	12	100	15	67	83

Dual Output Units Are Also Available In This Range, Please Enquire



Pin #	Connection
1	- V Input
3	+ V Input
7	- V Output
8	+ V Output
14	NC

* Further DC-DC Converters Are Available From 0.5 ~ 2400 Watts.

* Please See Our Web site at www.allpsu.co.uk For Details

* Please Contact ALL PSU Sales Office For Any Further Information Required, including details of alternative Pin-Out option.

* Specifications May Change Without Notice, E&OE, ALL PSU Terms And Conditions Apply