

MT-Power

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MTDD1-xxxx, 1 W, SMD, UNREGULATED, DUAL OUTPUT, 1000 VDC

Available Inputs: 5 and 12 VDC

Available Outputs: (\pm) 5, 9, 12 and 15 VDC

Other specifications please enquire.

Electrical Specifications

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

Input Specifications

Voltage range

± 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)

50 mV p-p, max.

Short circuit protection

Momentary

Line voltage regulation

$\pm 1,2$ % / 1,0 % of V_{in}

Load voltage regulation

± 12 %, load = 20 ~ 100 % max.

Temperature coefficient

$\pm 0,02$ % / °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

See graph

Humidity

Up to 90 %, non condensing

Cooling

Free air convection

Physical Characteristics

Case material

Non conductive black plastic

Lead temp. 1.5 mm from case for 10 sec.

+300° C

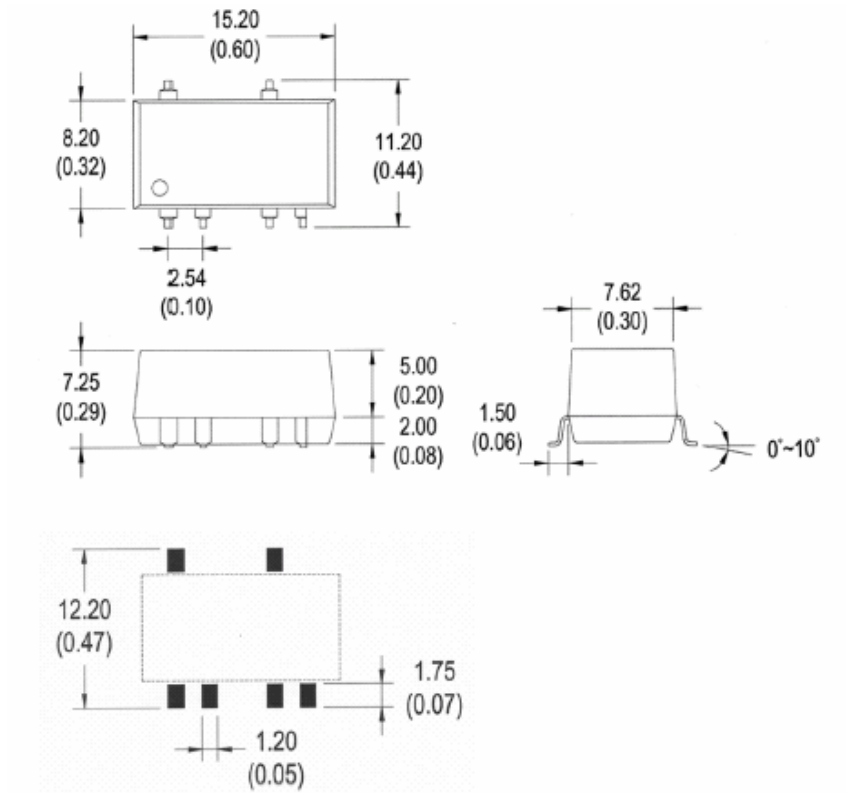
Peak reflow temp. with CECC 00802 profile

+280° C

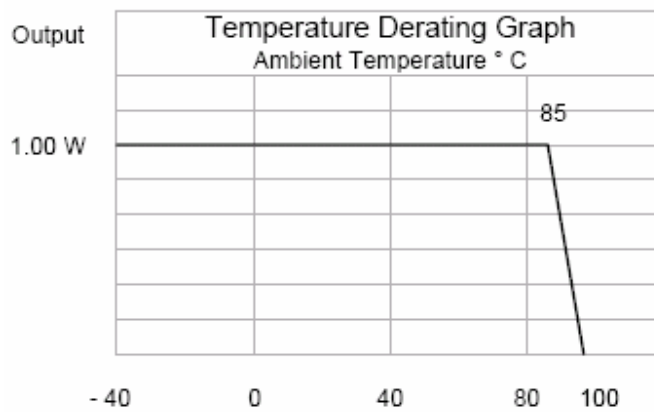
Partnumbers

MODELS	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	INPUT CURRENT (max. mA)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (%)
MTDD1-0505	5	± 5	281	± 100	71
MTDD1-0509	5	± 9	256	± 56	78
MTDD1-0512	5	± 12	258	± 42	78
MTDD1-0515	5	± 15	252	± 34	81
MTDD1-1205	12	± 5	114	± 100	73
MTDD1-1209	12	± 9	106	± 56	79
MTDD1-1212	12	± 12	104	± 42	81
MTDD1-1215	12	± 15	103	± 34	83

Outline Dimension



Temperature Derating



Pin Connection

Pin	Dual Output
1	-Vin
3	+Vin
7	Common
9	-Vout
12	+Vout
18	NC