



TRUMPower
DC/DC CONVERTERS

T2 Series
24-pin DIP, 1.5 to 3 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER			
			5 VDC IN	12 VDC IN	15 VDC IN	24 VDC IN
5 VDC	300 mA	1.5W	T2-1S0505	T2-1S1205	T2-1S1505	T2-1S2405
12 VDC	125 mA	1.5W	T2-1S0512	T2-1S1212	T2-1S1512	T2-1S2412
15 VDC	100 mA	1.5W	T2-1S0515	T2-1S1215	T2-1S1515	T2-1S2415
±5 VDC	±150 mA	1.5W	T2-1D0505	T2-1D1205	T2-1D1505	T2-1D2405
±12 VDC	±62 mA	1.5W	T2-1D0512	T2-1D1212	T2-1D1512	T2-1D2412
±15 VDC	±50 mA	1.5W	T2-1D0515	T2-1D1215	T2-1D1515	T2-1D2415
5 VDC	400 mA	2W	T2-2S0505	T2-2S1205	T2-2S1505	T2-2S2405
12 VDC	166 mA	2W	T2-2S0512	T2-2S1212	T2-2S1512	T2-2S2412
15 VDC	133 mA	2W	T2-2S0515	T2-2S1215	T2-2S1515	T2-2S2415
±5 VDC	±200 mA	2W	T2-2D0505	T2-2D1205	T2-2D1505	T2-2D2405
±12 VDC	±83 mA	2W	T2-2D0512	T2-2D1212	T2-2D1512	T2-2D2412
±15 VDC	±67 mA	2W	T2-2D0515	T2-2D1215	T2-2D1515	T2-2D2415
5 VDC	600 mA	3W	T2-3S0505	T2-3S1205	T2-3S1505	T2-3S2405
12 VDC	250 mA	3W	T2-3S0512	T2-3S1212	T2-3S1512	T2-3S2412
15 VDC	200 mA	3W	T2-3S0515	T2-3S1215	T2-3S1515	T2-3S2415
±5 VDC	±300 mA	3W	T2-3D0505	T2-3D1205	T2-3D1505	T2-3D2405
±12 VDC	±125 mA	3W	T2-3D0512	T2-3D1212	T2-3D1512	T2-3D2412
±15 VDC	±100 mA	3W	T2-3D0515	T2-3D1215	T2-3D1515	T2-3D2415

*Add suffix "H" for 3K VDC isolation, "H4" for 4K VDC isolation.
Other input/output combinations available.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @ +25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range.....±10%

Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy.....±2%, Max.

Line & Load Regulation.....±0.5%, Max.

Ripple and Noise, 20MHz BW.....75 mVp-p, Max.

Short Circuit Protection.....Continuous

GENERAL SPECIFICATIONS

Efficiency.....50 - 70%

Isolation Voltage, Input to Output....1,000 VDC, Standard
3,000 VDC, Suffix "H"
4,000 VDC, Suffix "H4"

Isolation Resistance.....10⁹ Ohms, Min.

Isolation Capacitance.....60 pF, Typ.

Switching Frequency.....Single Output, 40 kHz, Typ.
Dual Output, 300 kHz, Typ.

Operating Temperature Range.....-25°C to +80°C

Storage Temperature Range.....-40°C to +125°C

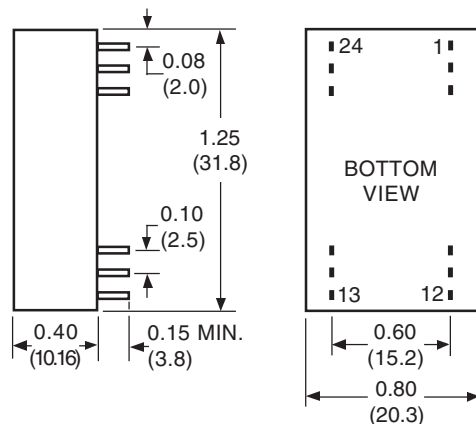
Cooling.....Free Air Convection

MTBF per MIL-HNBD-217F.....3M Hours, Min.

Weight.....0.44 oz. (12.5 grams)

Case Material.....Non-Conductive Black Plastic

PIN CONNECTIONS				
ISOL.	1,000 VDC		3,000 or 4,000 VDC	
FUNC.	SINGLE	DUAL	SINGLE	DUAL
+Vin	1, 24	1, 24	1, 2	1, 2
-Vin	12, 13	12, 13	23, 24	23, 24
+Vout	11, 14	11, 14	13	15
Com.	-	3, 10, 15, 22	-	10, 11
-Vout	10, 15	2, 23	12	13
N.C.	2, 3, 22, 23	-	-	-
No Pin	-	-	3, 10, 11, 14, 15, 22	3, 12, 14, 22



PIN SIZE: 0.02 (0.5) DIA.
ALL DIMENSIONS IN INCHES (mm)