



# TRUMPower

DC/DC CONVERTERS

# T2 Series

## 24-pin DIP, 1.5 to 3 Watts

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

48V input and 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

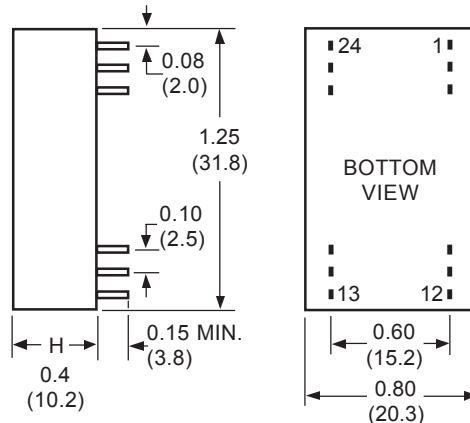
Voltage Accuracy.....±2%, Max.  
 Line/Load Regulation.....±0.5%, Max.  
 (Unregulated output models available upon request.)  
 Ripple and Noise, 20MHz BW.....75 mVp-p, Max.  
 Short Circuit Protection.....Continuous  
 Short Circuit Restart.....Automatic

#### GENERAL SPECIFICATIONS

Efficiency.....50-70%  
 Isolation Voltage, Input to Output.... 1,000 VDC, Standard  
 3,000 VDC, Suffix "H  
 (6KV isolation available for some models.)  
 Isolation Resistance.....10<sup>9</sup> Ohms, Min.  
 Switching Frequency.....125 kHz, Typ.  
 Operating Temperature Range.....-25°C to +71°C  
 Storage Temperature Range.....-40°C to +125°C  
 Cooling.....Free Air Convection  
 Weight.....0.45 oz. (12.2 grams)  
 Case Material.....Non-Conductive Black Plastic

PIN CONNECTIONS				
ISOL.	1,000 VDC		3,000 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
*NC	2,3,22,23	-	-	-

\*NC: No connection.  
 No pin on other pin locations.



PIN SIZE: 0.02 X 0.01 INCH OR 0.02 INCH DIA.  
 ALL DIMENSIONS IN INCHES (mm)