



# TRUMPower

DC/DC CONVERTERS

# T7-2N Series

## 14-Pin DIP, Unregulated 2 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER		
			5 VDC IN	12 VDC IN	24 VDC IN
3.3 VDC	500 mA	1.7W	T7-2S053.3N	T7-2S123.3N	T7-2S243.3N
5 VDC	400 mA	2W	T7-2S0505N	T7-2S1205N	T7-2S2405N
12 VDC	167 mA	2W	T7-2S0512N	T7-2S1212N	T7-2S2412N
15 VDC	134 mA	2W	T7-2S0515N	T7-2S1215N	T7-2S2415N
±5 VDC	±200 mA	2W	T7-2D0505N	T7-2D1205N	T7-2D2405N
±12 VDC	±84 mA	2W	T7-2D0512N	T7-2D1212N	T7-2D2412N
±15 VDC	±67 mA	2W	T7-2D0515N	T7-2D1215N	T7-2D2415N

\* Add suffix "H" for 3K VDC isolation version.  
48V input and other input/output combinations are also available.

### ELECTRICAL SPECIFICATIONS

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

### INPUT SPECIFICATIONS

Input Voltage Range.....±10%  
Input Filter.....Capacitors

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....±5%, Max.  
Voltage Balance, Balance Load.....±1%, Max.  
Line Regulation, FL.....±1.2%/Vin, Typ.  
Load Regulation, FL-20%FL.....±8%, Typ.  
Ripple and Noise, 20MHz BW.....75 mVp-p, Max.  
Short Circuit Protection.....Momentary

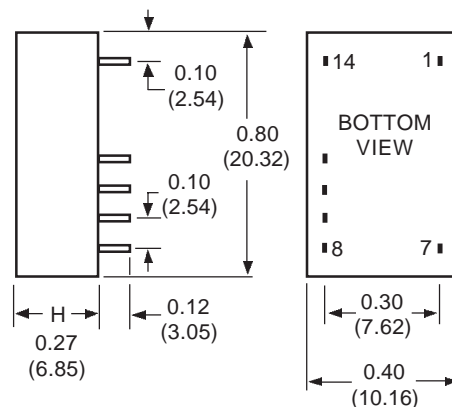
### GENERAL SPECIFICATIONS

Efficiency.....72- 85%  
Isolation Voltage, Input to Output.....1K VDC, Standard  
3K VDC, Suffix "H"  
Isolation Resistance.....10<sup>9</sup> Ohms, Min.  
Isolation Capacitance.....60pF, Typ.  
Switching Frequency.....80 kHz, Typ.  
Operating Temperature, No Derating.....-25°C to +71°C  
Storage Temperature Range.....-40°C to +125°C  
Cooling.....Free Air Convection  
MTBF per MIL-HDBK-217F @25°C.....>2,000k Hours  
Weight.....0.1 oz. (3 grams)  
Case Material.....Non-Conductive Black Plastic

PIN	PIN CONNECTIONS			
	STANDARD		3K VDC ISOLATION	
	SINGLE	DUAL	SINGLE	DUAL
1	-Vin	-Vin	-Vin	-Vin
7	*NC	*NC	*NC	*NC
8	*NP	Com.	+Vout	+Vout
9	+Vout	+Vout	*NP	Com.
10	*NP	*NP	-Vout	-Vout
11	-Vout	-Vout	*NP	*NP
14	+Vin	+Vin	+Vin	+Vin

\*NC: No Connection

\*NP: No Pin



PIN SIZE: 0.02 X 0.01 INCH

ALL DIMENSIONS IN INCHES (mm)