



# TRUMPower

## DC/DC CONVERTERS

# T7-2NH6 Series

## 14-Pin DIP, Unregulated 2W

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER		
			5 VDC IN	12 VDC IN	24 VDC IN
3.3 VDC	400 mA	1.32W	T7-2S053.3NH6	T7-2S123.3NH6	T7-2S243.3NH6
5 VDC	400 mA	2W	T7-2S0505NH6	T7-2S1205NH6	T7-2S2405NH6
12 VDC	167 mA	2W	T7-2S0512NH6	T7-2S1212NH6	T7-2S2412NH6
15 VDC	134 mA	2W	T7-2S0515NH6	T7-2S1215NH6	T7-2S2415NH6
±5 VDC	±200 mA	2W	T7-2D0505NH6	T7-2D1205NH6	T7-2D2405NH6
±12 VDC	±84 mA	2W	T7-2D0512NH6	T7-2D1212NH6	T7-2D2412NH6
±15 VDC	±67 mA	2W	T7-2D0515NH6	T7-2D1215NH6	T7-2D2415NH6

\*15V, 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.....Capacitors

#### OUTPUT SPECIFICATIONS

Voltage Accuracy.....±3%, Max.  
 Voltage Balance, Balance Load.....±1%, Max.  
 Line Regulation, FL.....±1.2%/Vin, Typ.  
 Load Regulation, FL-20%FL.....±10%, Typ.  
 Ripple and Noise, 20MHz BW.....75 mVp-p, Max.  
 Short Circuit Protection.....Momentary

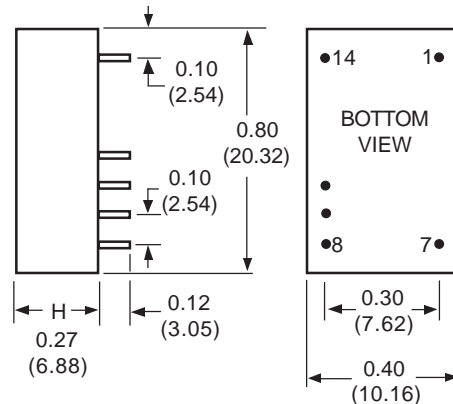
#### GENERAL SPECIFICATIONS

Efficiency.....70-82%  
 Isolation Voltage, Input to Output.....6,000 VDC  
 Isolation Resistance.....10<sup>9</sup> Ohms, Min.  
 Isolation Capacitance.....60pF, Typ.  
 Switching Frequency.....80 kHz, Typ.  
 Operating Temperature, No Derating.....-25°C to +85°C  
 Storage Temperature Range.....-40°C to +125°C  
 Cooling.....Free Air Convection  
 MTBF per MIL-HDBK-217F @25°C.....>1,120k Hours  
 Case Material.....Non-Conductive Black Plastic,  
 UL94V-0 Rated

PIN CONNECTIONS		
PIN	SINGLE	DUAL
1	-Vin	-Vin
7	*NC	*NC
8	+Vout	+Vout
9	*NP	Com.
10	-Vout	-Vout
14	+Vin	+Vin

\*NC: No Connection

\*NP: No Pin



PIN SIZE: 0.02 ± 0.002 INCH (0.5 ± 0.05 mm) DIA.

ALL DIMENSIONS IN INCHES (mm)