



# TRUMPower

DC/DC CONVERTERS

# T3-N Series

8-pin DIP, 0.25 to 1.5 Watts

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	MODEL NUMBER			
			5 VDC IN	12 VDC IN	15 VDC IN	24 VDC IN
3.3 VDC	303 mA	1W	T3-1S053.3N	T3-1S123.3N	T3-1S153.3N	T3-1S243.3N
5 VDC	200 mA	1W	T3-1S0505N	T3-1S1205N	T3-1S1505N	T3-1S2405N
12 VDC	83 mA	1W	T3-1S0512N	T3-1S1212N	T3-1S1512N	T3-1S2412N
15 VDC	67 mA	1W	T3-1S0515N	T3-1S1215N	T3-1S1515N	T3-1S2415N
24 VDC	42 mA	1W	T3-1S0524N	T3-1S1224N	T3-1S1524N	T3-1S2424N
±3.3 VDC	±152 mA	1W	T3-1D053.3N	T3-1D123.3N	T3-1D153.3N	T3-1D243.3N
±5 VDC	±100 mA	1W	T3-1D0505N	T3-1D1205N	T3-1D1505N	T3-1D2405N
±12 VDC	±42 mA	1W	T3-1D0512N	T3-1D1212N	T3-1D1512N	T3-1D2412N
±15 VDC	±33 mA	1W	T3-1D0515N	T3-1D1215N	T3-1D1515N	T3-1D2415N
±24 VDC	±21 mA	1W	T3-1D0524N	T3-1D1224N	T3-1D1524N	T3-1D2424N

48V input, 0.25-1.5W versions 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.....Capacitor

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....±3%, Max.  
 Output Current.....See Table  
 Line Regulation, FL.....±1.2%/V<sub>in</sub>, Max.  
 Load Regulation, FL-20%FL.....±10%, Max.  
 Ripple and Noise, 20MHz BW.....100 mVp-p, Max.  
 Short Circuit Protection.....1 Sec. Max.

### GENERAL SPECIFICATIONS

Efficiency.....72 - 78%  
 Isolation Voltage.....1,000 VDC, Standard  
 3,000 VDC, Suffix "H"  
 Switching Frequency.....80 kHz, Typ.

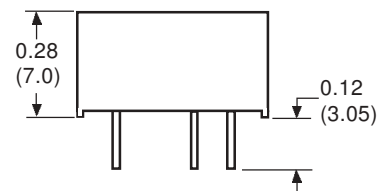
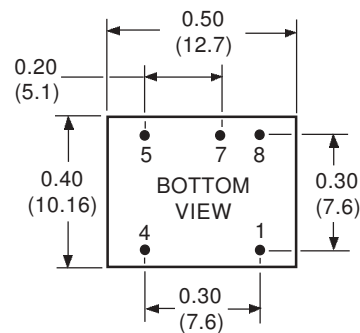
### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range.....-25°C to +71°C  
 Storage Temperature Range.....-40°C to +125°C  
 Cooling.....Free Air Convection

### PHYSICAL SPECIFICATIONS

Dimensions.....0.50\*0.40 \* 0.28 inch  
 Weight.....0.1 oz.  
 Case Material.....Non-Conductive Black Plastic

PIN CONNECTIONS		
PIN	SINGLE	DUAL
1	-V Input	-V Input
4	+V Input	+V Input
5	+V Output	+V Output
7	-V Output	Common
8	No Pin	-V Output



PIN SIZE: 0.02 INCH (0.5 mm) DIA.

ALL DIMENSIONS IN INCHES (mm)