



TRUMPower

DC/DC CONVERTERS

T7-NH6 Series

14-Pin DIP, Unregulated 1W

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER		
			5 VDC IN	12 VDC IN	24 VDC IN
3.3 VDC	303 mA	0.9W	T7-1S053.3NH6	T7-1S123.3NH6	T7-1S243.3NH6
5 VDC	200 mA	1W	T7-1S0505NH6	T7-1S1205NH6	T7-1S2405NH6
12 VDC	83.3 mA	1W	T7-1S0512NH6	T7-1S1212NH6	T7-1S2412NH6
15 VDC	66.7 mA	1W	T7-1S0515NH6	T7-1S1215NH6	T7-1S2415NH6
±5 VDC	±100 mA	1W	T7-1D0505NH6	T7-1D1205NH6	T7-1D2405NH6
±12 VDC	±41.67 mA	1W	T7-1D0512NH6	T7-1D1212NH6	T7-1D2412NH6
±15 VDC	±33.33 mA	1W	T7-1D0515NH6	T7-1D1215NH6	T7-1D2415NH6

*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%/V_{in}, Typ.
 Load Regulation, FL-20%FL.....±10%, Typ.
 Ripple and Noise, 20MHz BW.....75 mVp-p, Max.
 Short Circuit Protection.....Momentary

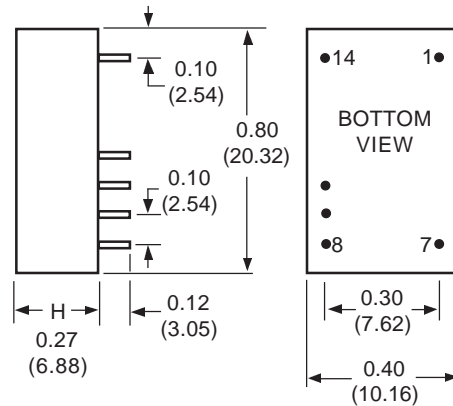
GENERAL SPECIFICATIONS

Efficiency.....70-82%
 Isolation Voltage, Input to Output.....6,000 VDC
 Isolation Resistance.....10⁹ 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
 Weight.....0.1 oz. (3 grams)
 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)