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.

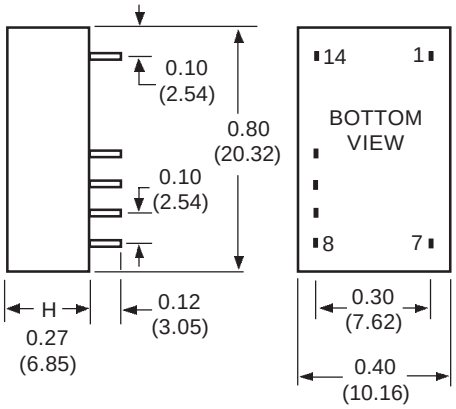
INPUT SPECIFICATIONS
Input Voltage Range.....±10%
Input Filter.....Capacitors

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.....10^9 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 CONNECTIONS				
	STANDARD		3K VDC ISOLATION	
PIN	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)

Tumbler Technologies + TRUMPower • Santa Clara, CA • 408-988-6616 • sales@trumpower.com • **www.TRUMPower.com**