TRUMPower
DC/DC CONVERTERS

TSC-NH Series
3KV Isolation, 0.25 to 1 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	MODEL NUMBER				
			5 VDC IN	12 VDC IN	15 VDC IN	24 VDC IN	48 VDC IN
3.3 VDC	303 mA	1.0W	TSC-1S053.3NH	TSC-1S123.3NH	TSC-1S153.3NH	TSC-1S243.3NH	TSC-1S483.3NH
5 VDC	200 mA	1.0W	TSC-1S0505NH	TSC-1S1205NH	TSC-1S1505NH	TSC-1S2405NH	TSC-1S4805NH
12 VDC	84 mA	1.0W	TSC-1S0512NH	TSC-1S1212NH	TSC-1S1512NH	TSC-1S2412NH	TSC-1S4812NH
15 VDC	67 mA	1.0W	TSC-1S0515NH	TSC-1S1215NH	TSC-1S1515NH	TSC-1S2415NH	TSC-1S4815NH
±5 VDC	±100 mA	1.0W	TSC-1D0505NH	TSC-1D1205NH	TSC-1D1505NH	TSC-1D2405NH	TSC-1D4805NH
±12 VDC	±42 mA	1.0W	TSC-1D0512NH	TSC-1D1212NH	TSC-1D1512NH	TSC-1D2412NH	TSC-1D4812NH
±15 VDC	±34 mA	1.0W	TSC-1D0515NH	TSC-1D1215NH	TSC-1D1515NH	TSC-1D2415NH	TSC-1D4815NH

0.25W, 0.5W and 0.75W 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.....Capacitors

OUTPUT SPECIFICATIONS

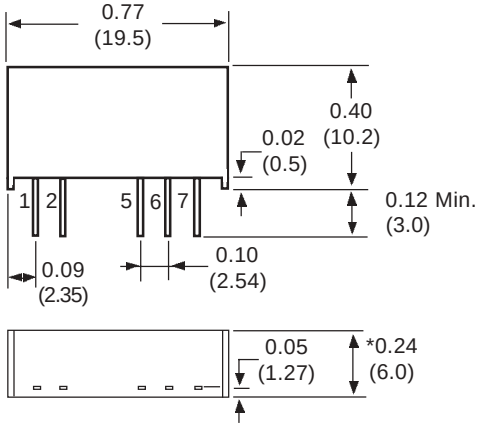
Voltage Accuracy.....±5%, Max.
Line Regulation, FL.....±1.2%/%Vin, Max.
Load Regulation, FL-20%FL.....±8%, Max.
(For regulated output models, see TSC-H Series.)
Ripple and Noise, 20MHz BW.....50 mVp-p, Typ.
100 mVp-p, Max.
Short Circuit Protection.....Short Term

GENERAL SPECIFICATIONS

Efficiency.....65 - 78%
Isolation Voltage, Input to Output.....3,000 VDC
Isolation Resistance.....10^9 Ohms, Min.
Isolation Capacitance.....60pF, Typ.
Switching Frequency.....125 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	
PIN	FUNCTION
1	+V Input
2	-V Input
5	-V Output
6	*Common
7	+V Output

*No pin on single output models.



*0.285 (7.2) on 48V input models

PIN SIZE: 0.02 X 0.01 INCH

ALL DIMENSIONS IN INCHES

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