TRUMPower
DC/DC CONVERTERS

TSC2-N Series
7-pin SIP, 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	TSC2-2S053.3N	TSC2-2S123.3N	TSC2-2S243.3N
5 VDC	400 mA	2W	TSC2-2S0505N	TSC2-2S1205N	TSC2-2S2405N
12 VDC	165 mA	2W	TSC2-2S0512N	TSC2-2S1212N	TSC2-2S2412N
15 VDC	133 mA	2W	TSC2-2S0515N	TSC2-2S1215N	TSC2-2S2415N
±5 VDC	±200 mA	2W	TSC2-2D0505N	TSC2-2D1205N	TSC2-2D2405N
±12 VDC	±83 mA	2W	TSC2-2D0512N	TSC2-2D1212N	TSC2-2D2412N
±15 VDC	±66 mA	2W	TSC2-2D0515N	TSC2-2D1215N	TSC2-2D2415N

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range.....±10%
Input Filter.....Pi Filter

OUTPUT SPECIFICATIONS

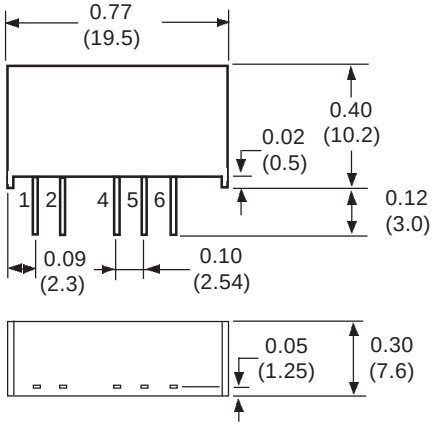
Voltage Accuracy.....±3%, Max.
Voltage Balance, Balance Load.....±1%, Max.
Line Regulation, FL.....±1.2%/%Vin, Typ.
Load Regulation, FL-20%FL.....±8%, Typ.
(For regulated 0.75W models, see TSB Series.)
Ripple and Noise, 20MHz BW.....100 mVp-p, Typ.
150 mVp-p, Max.
Short Circuit Protection.....0.5 Second, Max.

GENERAL SPECIFICATIONS

Efficiency.....73-83%
Isolation Voltage, Input to Output.....1,000 VDC
(For 3K VDC isolated 1W models, see TSC-H Series.)
Isolation Resistance.....10^9 Ohms, Min.
Isolation Capacitance.....80pF, 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	
PIN	FUNCTION
1	+V Input
2	-V Input
4	-V Output
5	Common*
6	+V Output

*No pin on single output models.



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**