



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

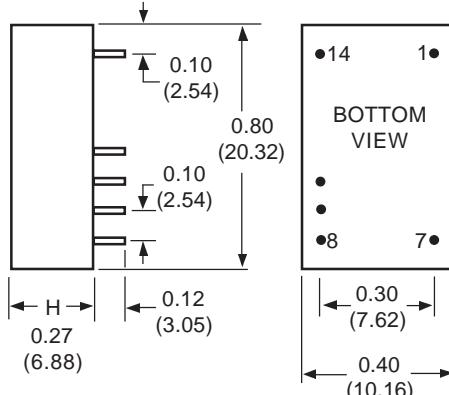
GENERAL SPECIFICATIONS

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)

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