DATASHEET

DC/DC-Converter
TP150-Series
150Watt

- **2:1 Input Range**
- **Efficiency to 85%**
- **Half-brick Package**
- **OCP/ OVP/ OTP**
- **continuous short circuit Protection**
- **Remote ON/OFF**

Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TP150-48S2.5	36 – 75 V	2.5 VDC	30 A	50 mA	2100 mA	74
TP150-48S3.3	36 – 75 V	3.3 VDC	30 A	50 mA	2600 mA	79
TP150-48S05	36 – 75 V	5 VDC	30 A	50 mA	3700 mA	83
TP150-48S12	36 – 75 V	12 VDC	12.5 A	50 mA	3600 mA	85
TP150-48S15	36 – 75 V	15 VDC	10 A	50 mA	3600 mA	85
TP150-48S24	36 – 75 V	24 VDC	6.25 A	50 mA	3600 mA	85

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted /

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT..... 48Vin power down ..... 32.5V typ
48Vin power up ..... 34V typ

INPUT FILTER..... PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy..... ±1.5% max
Ripple and Noise, 20MHz BW .....Vo = 2,5 & 3,3V & 5V..... max. 100mVpp.
Vo = 12V & 15V..... max. 150mVpp.
Vo = 24V..... max. 240mVpp.
Temperature Coefficient ..... ±0.03%/C max
Line Regulation ..... ±0.2%.
Load Regulation ..... ±0.2%.
External Trim Adj. Range ..... ±10%
Short Circuit Protection ..... continuous
Over Voltage Protection..... 115 – 140%
Current Limit .....110% - 140% Nominal Output

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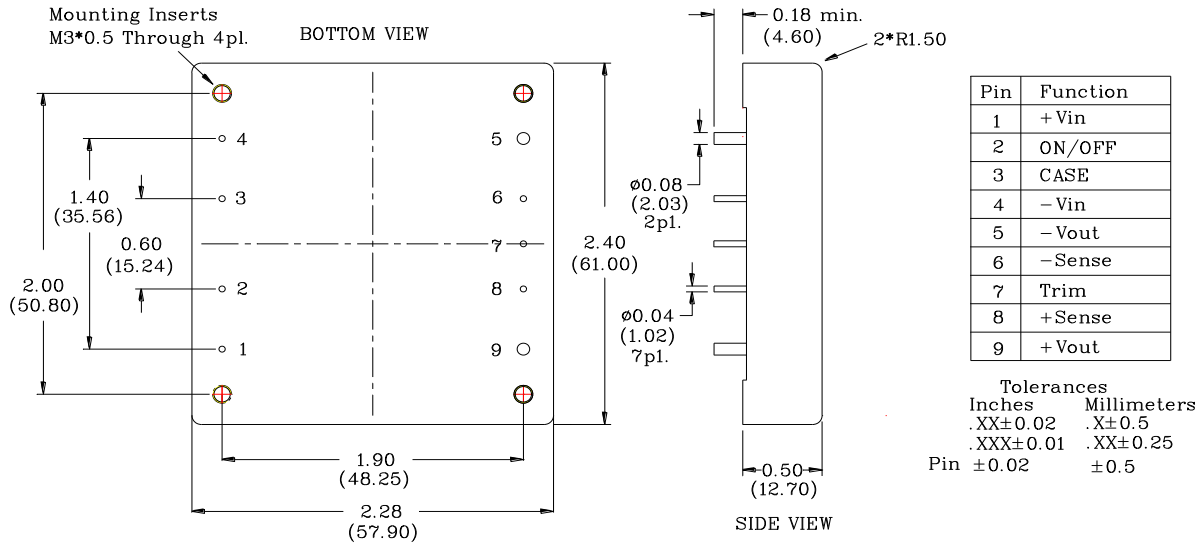
GENERAL SPECIFICATIONS

ISOLATION VOLTAGE..... 1500VDC max.
ISOLATION RESISTANCE .....10 MOhm
SWITCHING FREQUENCY..... 500KHz typ.
OPERATING TEMPERATURE RANGE..... -40°C TO +100°C
THERMAL SHUT DOWN; CASE TEMPERATURE ..... 100°Cmax.
STORAGE TEMPERATURE RANGE.....-40°C TO +105°C
CASE MATERIAL ..... Aluminium
DIMENSIONS ..... 2,28×2,40×0.50 INCHES (57.9 × 61.0 × 12.7mm)

NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load

MECHANICAL SPECIFICATIONS

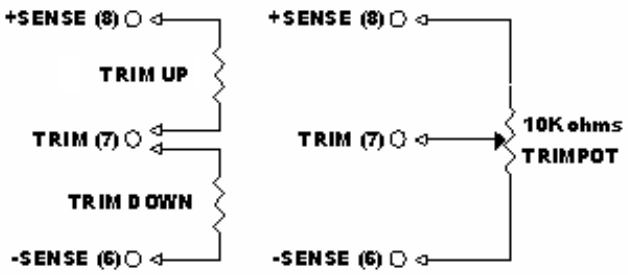


Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	−Vin
5	−Vout
6	−Sense
7	Trim
8	+Sense
9	+Vout

Tolerances

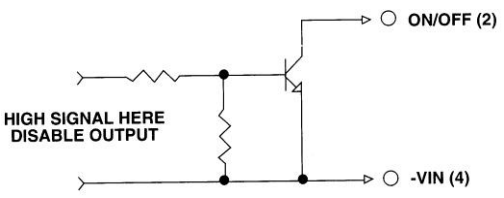
Inches	Millimeters
.XX±0.02	.X±0.5
.XXX±0.01	.XX±0.25
Pin ±0.02	±0.5

External Output TRIM



REMOTE ON/OFF

Logic Compatibility	Open collector TTL refer to -Input
Modul ON	Open Circuit
Module OFF	<0.8 Vdc



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