DATASHEET

DC/DC-Converter
TP150W-Series
150Watt

- **4:1 Input Range**
- **Efficiency to 90%**
- **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.
TP150W-24S33	9 -36 V	3.3 VDC	30 A	200 mA	4741 mA	85
TP150W-24S05	9 -36 V	5 VDC	30 A	200 mA	7022 mA	87
TP150W-24S12	9 -36 V	12 VDC	12.5 A	100 mA	6944 mA	88
TP150W-24S15	9 -36 V	15 VDC	10 A	100 mA	6944 mA	88
TP150W-24S24	9 -36 V	24 VDC	6.5A	100 mA	7022 mA	88
TP150W-48S33	18 -75 V	3.3 VDC	30 A	200 mA	2371 mA	87
TP150W-48S05	18 -75 V	5 VDC	30 A	200 mA	3511 mA	89
TP150W-48S12	18 -75 V	12 VDC	12.5 A	50 mA	3472 mA	90
TP150W-48S15	18 -75 V	15 VDC	10 A	50 mA	3472 mA	90
TP150W-48S24	18 -75 V	24 VDC	6.5A	50 mA	3511 mA	89

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

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INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT	24Vin power down	8.0V typ
	24Vin power up	8.8V typ
	48Vin power down	16V typ
	48Vin power up	17V typ

POSITIVE LOGIC REMOTE ON/OFF CONTROL

Logic Compatibility	CMOS or Open Collector TTL, ref. to –Vin
Module ON	>+3.5 to 75VDC or Open Circuit
Module OFF	<1.8 Vdc

INPUT FILTER ..... PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.5% max
Ripple and Noise, 20MHz BW	Vo = 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

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE	1500VDC max.
ISOLATION RESISTANCE	10 MOhm
SWITCHING FREQUENCY	250KHz typ.
OPERATING TEMPERATURE RANGE	-40°C TO +100°C
THERMAL SHUT DOWN; CASE TEMPERATURE	110°Cmax.
STORAGE TEMPERATURE RANGE	-55°C TO +105°C
CASE MATERIAL	Aluminium Base Plate with Plastic Case
DIMENSIONS	2,28×2,40×0.52 INCHES (57.9 × 61.0 × 13.2mm)

NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load
3. Output ripple and noise is measured with 10µF tantalum and 1µF Ceramic capacitor across output

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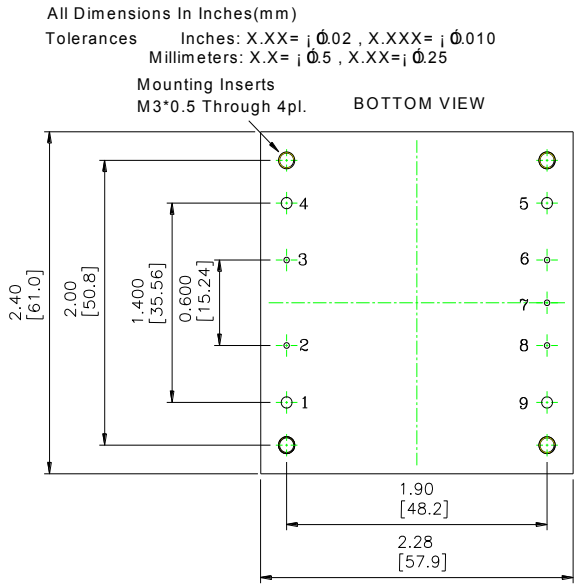
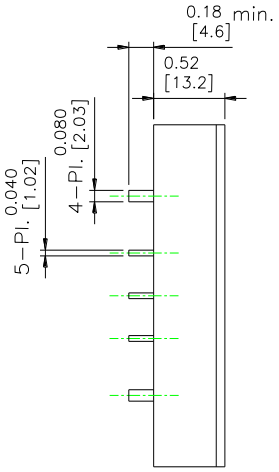
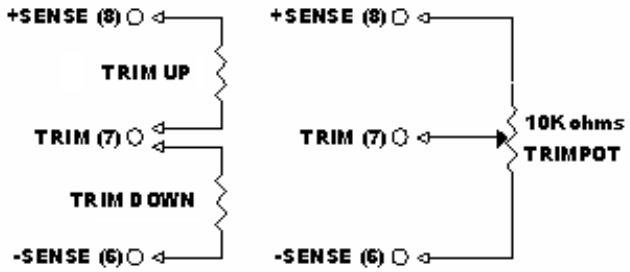
MECHANICAL SPECIFICATIONS





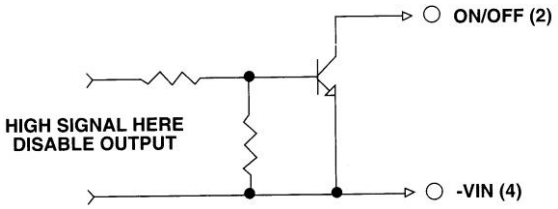
Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

External Output TRIM



REMOTE ON/OFF CONTROL

Logic Compatibility	CMOS or Open collector TTL ref. to -Vin
Modul ON	>+3.5 to 75VDC or Open Circuit
Module OFF	<1.8 Vdc



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