DATASHEET

DC/DC-Converter
TP25-Series
25Watt

- **2:1 Input Range**
- **Efficiency to 85%**
- **2" x 2" Package**
- **continuous short circuit Protection**
- **Ext. Output Trim**

Model Number	Input Voltage	Output Voltage	Output Current	Input Current No Load	Full Load	% Eff.
TP25-12S3.3	9 – 18 V	3.3 VDC	5000 mA	30 mA	1860 mA	74
TP25-12S05	9 – 18 V	5 VDC	5000 mA	30 mA	2675 mA	78
TP25-12S12	9 – 18 V	12 VDC	2500 mA	30 mA	3050 mA	82
TP25-12S15	9 – 18 V	15 VDC	2000 mA	30 mA	3050 mA	82
TP25-12D05	9 – 18 V	±5V	± 2500 mA	35 mA	2675 mA	78
TP25-12D12	9 – 18 V	±12V	± 1250 mA	35 mA	3050 mA	82
TP25-12D15	9 – 18 V	±15V	± 1000 mA	35 mA	3050 mA	82
TP25-12T512	9 – 18 V	5.0V /±12V	3.5A/± 0.31A	35 mA	2640 mA	79
TP25-12T515	9 – 18 V	5.0V /±15V	3.5A/± 0.25A	35 mA	2640 mA	79
TP25-24S3.3	18 – 36 V	3.3 VDC	5000 mA	30 mA	920 mA	75
TP25-24S05	18 – 36 V	5 VDC	5000 mA	30 mA	1336 mA	79
TP25-24S12	18 – 36 V	12 VDC	2500 mA	30 mA	1525 mA	82
TP25-24S15	18 – 36 V	15 VDC	2000 mA	30 mA	1525 mA	82
TP25-24D05	18 – 36 V	±5V	± 2500 mA	30 mA	1336 mA	79
TP25-24D12	18 – 36 V	±12V	± 1250 mA	30 mA	1470 mA	85
TP25-48D15	18 – 36 V	±15V	± 1000 mA	30 mA	1470 mA	85
TP25-24T512	18 – 36 V	5.0V /±12V	3.5A/± 0.31A	30 mA	1320 mA	80
TP25-24T515	18 – 36 V	5.0V /±15V	3.5A/± 0.25A	30 mA	1320 mA	80
TP25-48S33	36 – 75 V	3.3 VDC	5000 mA	20 mA	460 mA	75
TP25-48S05	36 – 75 V	5 VDC	5000 mA	20 mA	660 mA	79
TP25-48S12	36 – 75 V	12 VDC	2500 mA	20 mA	765 mA	82
TP25-48S15	36 – 75 V	15 VDC	2000 mA	20 mA	765 mA	82
TP25-48D05	36 – 75 V	±5V	± 2500 mA	25 mA	660 mA	79
TP25-48D12	36 – 75 V	±12V	± 1250 mA	25 mA	735 mA	85
TP25-48D15	36 – 75 V	±15V	± 1000 mA	25 mA	735 mA	85
TP25-48T512	36 – 75 V	5.0V /±12V	3.5A/± 0.31A	25 mA	655 mA	80
TP25-48T515	36 – 75 V	5.0V /±15V	3.5A/± 0.25A	25 mA	655 mA	80

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

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INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE	12V	9V-18V
	24V	18V-36V
	48V	36V-72V
INPUT FILTER		PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy	Single	±2.0% max
	Dual + Output	±2.0% max
	Dual - Output	±3.0% max
	Triple 5V	±2.0% max
	Triple 12V/ 15V	±5.0% max
Voltage Balance (dual)		±1% max
Ripple and Noise, 20MHz BW	Vo = 3,3V & 5V	max. 50mVpp.
	Vo = 12V & 15V	max. 75mVpp.
Temperature Coefficient		±0.02%/C max
Line Regulation[1]	Single/Dual	±0.5%max
	Triple	±1.0% max
Load Regulation[2]	Single/Dual	±0.5%max
	Triple	±5.0% max
Short Circuit Protection		continuous

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE	1500VDC max.
ISOLATION RESISTANCE	1000 MOhm
SWITCHING FREQUENCY	300KHz typ.
OPERATING TEMPERATURE RANGE	-40°C TO +71°C
DERATING, ABOVE 71°C	LINEARY TO ZERO POWER AT 100 °C
THERMAL SHUT DOWN; CASE TEMPERATURE	100°Cmax.
STORAGE TEMPERATURE RANGE	-40°C TO +105°C
CASE MATERIAL	Black Coated Copper with Non-Conductive Base
DIMENSIONS	2,00×2,00×0,40 INCHES (50.8 × 50.8 × 10.2mm)

NOTE:

1. Measured From High Line To Low Line
2. Measured From Full Load To 25% Load
3. Maximum case temperature under any operating conditions should not exceed 100°C

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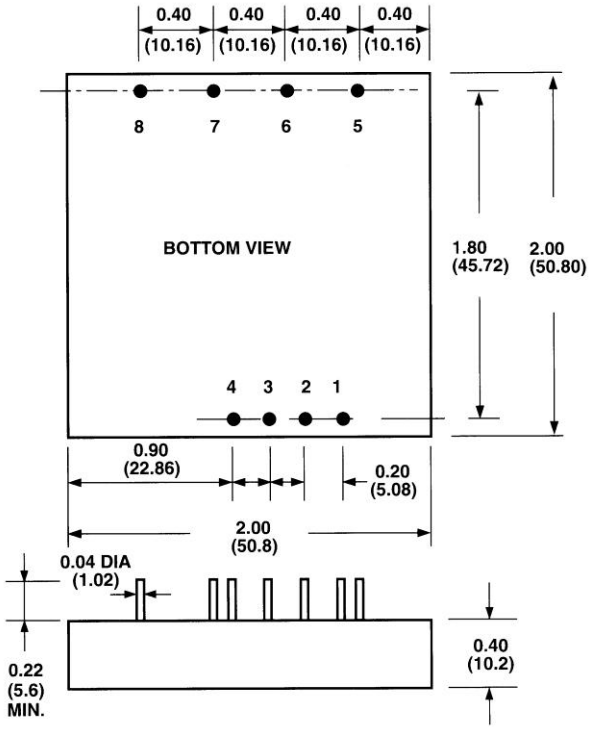
MECHANICAL SPECIFICATIONS



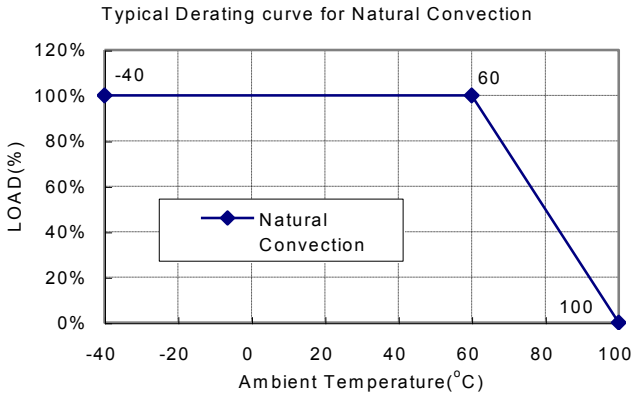
NOTE: Pin Size = 0.02" (0.5mm) Ø

PIN CONNECTION

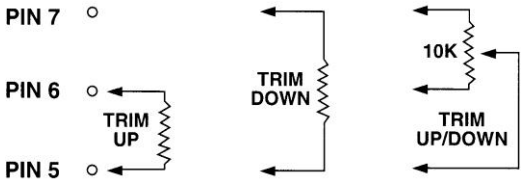
	PIN CONNECTION		
Pin	SINGLE	DUAL	TRIPLE
1	Remote ON/OFF		
2	NP	NP	NP
3	- Vin	- Vin	- Vin
4	+ Vin	+ Vin	+ Vin
5	TRIM	TRIM	- Aux Out
6	- Vout	- Vout	Common
7	+ Vout	Common	+ 5V
8	NP	+ Vout	+ Aux Out

TRIPLE OUTPUT LOADING TABLE (1)			
OUTPUT (Pin Nr)	Voltage	Ampere	
		Min (2)	Nom.
7	+ 5	0.25	1.5
8 & 5	+ 12 & -12	0.1	0.31
8 & 5	+ 15 & -15	0.1	0.25

DERATING CURVE



EXT TRIM ADJUST.



REMOTE ON/OFF CONTROL

Logic Compatibility	Open collector TTL refer to -Input
Modul ON	> 5.5V or Open Circuit
Module OFF	<1.8 Vdc
Control Common	referenced to -Vin

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