

- 4:1 Input Range
- Efficiency to 84%
- 2" x 1.6" Package
- Meets EN5022 Class A
- continuous short circuit Protection



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TP20W-24S3.3	9-36 VDC	3.3 VDC	4000 mA	15 mA	705 mA	78
TP20W-24S05	9-36VDC	5 VDC	4000 mA	15 mA	1029 mA	81
TP20W-24S12	9-36VDC	12 VDC	1670 mA	15 mA	1006 mA	83
TP20W-24S15	9-36VDC	15 VDC	1330 mA	15 mA	1004 mA	83
TP20W-24D05	9-36VDC	±5V	2000 mA	20 mA	1004 mA	83
TP20W-24D12	9-36VDC	±12V	833 mA	20 mA	1004 mA	83
TP20W-24D15	9-36VDC	±15V	666 mA	20 mA	1004 mA	83
TP20W-48S3.3	18-72 VDC	3.3 VDC	4000 mA	10 mA	353 mA	78
TP20W-48S05	18-72 VDC	5 VDC	4000 mA	10 mA	508 mA	82
TP20W-48S12	18-72 VDC	12 VDC	1670 mA	10 mA	497 mA	84
TP20W-48S15	18-72VDC	15 VDC	1330 mA	10 mA	496 mA	84
TP20W-48D05	18-72 VDC	±5V	2000 mA	15 mA	496 mA	84
TP20W-48D12	18-72VDC	±12V	833 mA	15 mA	496 mA	84
TP20W-48D15	18-72 VDC	±15V	666 mA	15 mA	496 mA	84

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TECHNO-PROJEKT 2009

### INPUT SPECIFICATIONS

INPUT FILTER..... PI Type

POSITIVE LOGIC REMOTE CONTROL

Logic Compatibility..... Open collector TTL  
 Modul ON..... > 5.5V or Open Circuit  
 Module OFF..... <1.8 VDC

## OUTPUT SPECIFICATIONS

Voltage Accuracy.....	Single .....	±1.0% max
	Dual + Output .....	±1.0% max
	Dual - Output .....	±2.0% max
Voltage Balance (dual) at Full Load .....		±1.0% max
Ripple and Noise, 20MHz BW .....		max. 75mVpp.
Temperature Coefficient .....		±0.02%/C max
Line Regulation <sup>1</sup> .....		±0.5%.
Load Regulation <sup>2</sup> .....		±0.5%.
External Trim Adj. Range .....		±10%
Short Circuit Protection .....		continuous

## GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC max.
ISOLATION RESISTANCE .....	100 MOhm
SWITCHING FREQUENCY.....	300KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +71°C
DERATING, ABOVE 60°C .....	LINEARY TO ZERO POWER AT 100 °C
COOLING.....	Natural Convection, 20ft./min.(0.1m/s)
CASE TEMPERATURE .....	100°Cmax.
STORAGE TEMPERATURE RANGE.....	-55°C TO +105°C
THERMAL SHUTDOWN, CASE TEMPERATURE:::	100°C Typ.
EMI/RFI .....	six sided continuous shield
DIMENSIONS .....	2×1,6×0.45 INCHES (50.8 × 40.6 × 11.4mm)
CASE MATERIAL .....	Black Coated Copper with Non-Conductive Base

### NOTE:

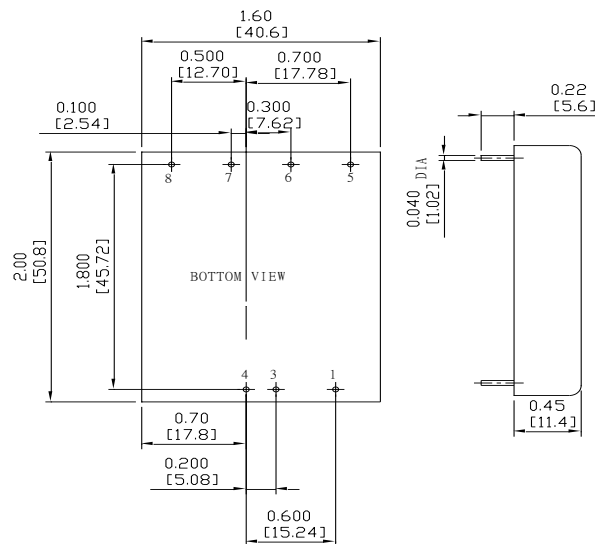
1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To 25% Load
3. Maximum Case Temperature Under Any Operating Condition Should Not Be Exceeded 100°C

### MECHANICAL SPECIFICATIONS

CASE SC

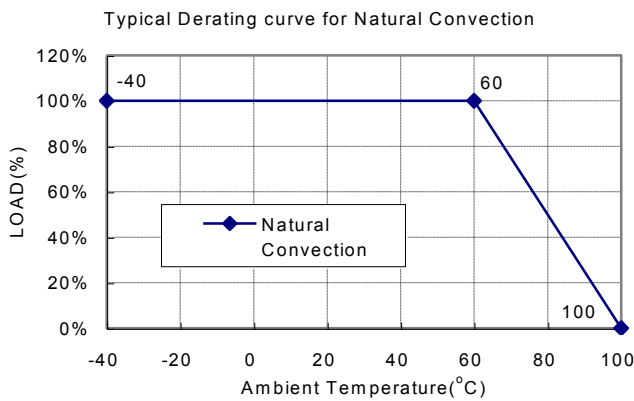
All Dimensions In Inches(mm)

Tolerances Inches: X.XX= ±0.04, X.XXX= ±0.010  
Millimeters: X.X= ±0.0, X.XX= ±0.25



PIN CONNECTIONS		
Pin	Single Output	Dual Output
1	On/Off Control	On/Off Control
3	-Vin	-Vin
4	+Vin	+Vin
5	Trim	Trim
6	-Vout	-Vout
7	+Vout	Common
8	No Pin	+Vout

### DERATING CURVE



### EXTERNAL OUTPUT TRIM

