

- 1“x1“-Package
- 4:1 Input Range
- Efficiency up to 86%
- Overvoltage Protection
- continuous short circuit Protection
- Remote ON/OFF



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TPQ10W-24S3.3	9-36 VDC	3.3 VDC	2500 mA	5 mA	425 mA	81
TPQ10W-24S05	9-36 VDC	5 VDC	2000 mA	5 mA	496 mA	84
TPQ10W-24S12	9-36 VDC	12 VDC	835 mA	10 mA	486 mA	86
TPQ10W-24S15	9-36 VDC	15 VDC	666 mA	10 mA	486 mA	86
TPQ10W-24D05	9-36 VDC	± 5 VDC	±1000mA	10 mA	496 mA	84
TPQ10W-24D12	9-36 VDC	± 12 VDC	±416mA	10 mA	486 mA	86
TPQ10W-24D15	9-36 VDC	± 15 VDC	±333mA	10 mA	486 mA	86
TPQ10W-48S3.3	18-75 VDC	3.3 VDC	2500 mA	5 mA	210 mA	82
TPQ10W-48S05	18-75 VDC	5 VDC	2000 mA	5 mA	248 mA	84
TPQ10W-48S12	18-75 VDC	12 VDC	835 mA	5 mA	243 mA	86
TPQ10W-48S15	18-75 VDC	15 VDC	666 mA	5 mA	243 mA	86
TPQ10W-48D05	18-75 VDC	± 5 VDC	±1000mA	5 mA	248 mA	84
TPQ10W-48D12	18-75 VDC	± 12 VDC	±416mA	8 mA	243 mA	86
TPQ10W-48D15	18-75 VDC	± 15 VDC	±333mA	8 mA	243 mA	86

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

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE	24V	18 - 36V typ
INPUT UNDER VOLTAGE LOCK OUT	24Vin power up	8.8V
	24Vin power down	8V
	48Vin power up	17V
	48Vin power down	16V
INPUT FILTER.....		LC-Type

OUTPUT SPECIFICATIONS

VOLTAGE ACCURACY.....		±1.5% max
VOLTAGE BALANCE (DUAL)		±1.0% max
RIPPLE AND NOISE, 20MHz BW	3.3V & 5V	max. 75mVpp.
	12V & 15V	max. 100mVpp.
TEMPERATUR COEFFICIENT		±0.03%/C max
LINE REGULATION ¹		±0.5%.
LOAD REGULATION ²	Single	±0.5% max
	Dual	±1.0% max
CROSS REGULATION (DUAL OUTPUT) LOAD CROSS VARIATION 25%/100%		±5.0% max
EXTERNAL TRIM ADJUSTABLE RANGE		±10%
SHORT CIRCUIT PROTECTION		continuous
OVER VOLTAGE PROTECTION.....		Zener or TVS clamp

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....		1500VDC max.
ISOLATION RESISTANCE		1000 MOhm
SWITCHING FREQUENCY.....		100KHz typ.
OPERATING TEMPERATURE RANGE.....		-40°C TO +85°C
DERATING, ABOVE 71°C		LINEARY TO ZERO POWER AT 105 °C
COOLING.....		Natural Convection, 20ft./min.(0.1m/s)
CASE TEMPERATURE		105°Cmax.
STORAGE TEMPERATURE RANGE.....		-55°C TO +125°C
CASE MATERIAL		Black Coated Copper with Non-Conductive Base
DIMENSIONS		1,0×1,0×0.4 INCHES (25.4 × 25.4 × 10.2mm)

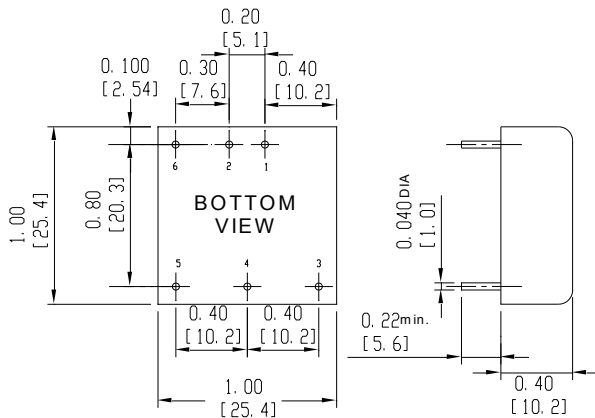
NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To 10% Load
3. Maximum Case Temperature Under Any Operating Condition Should Not Be Exceeded 105°C
4. Output ripple and noise is measured with 10µF tantalum and 1µF Ceramic capacitor across output

MECHANICAL SPECIFICATIONS

EXT.OUTPUT TRIM

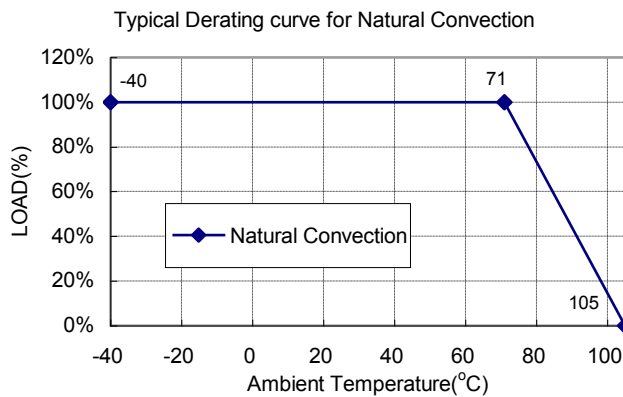
Tolerances Inches: X.XX= ± 0.04 , X.XXX= ± 0.010
 Millimeters: X.X= ± 0.0 , X.XX= ± 0.25



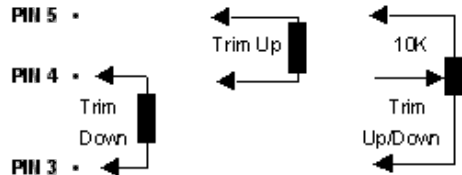
Pin	PIN CONNECTION	
	DIP Function	
1	+Input	+Input
2	-Input	-Input
3	+V Output	+V Output
4	Trim	Common
5	-V Output	-V Output
6	Remote	Remote

Power Derating

EXT.OUTPUT TRIM



Output Voltage Adjust $\pm 10\%$ with fixed Resistor or External Trimpot



REMOTE ON/OFF

Logic Compatibility Open collector TTL, refer to -Vin
 Modul ON > 3.5V to 75V or Open Circuit
 Module OFF < 1.2 Vdc