



TRUMPower

DC/DC CONVERTERS

TD6 Series

2:1 Input, 25-30 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	MODEL NUMBER		
			9-18 VDC IN	18-36 VDC IN	36-72 VDC IN
3.3 VDC 5 VDC 12 VDC 15 VDC	5000 mA 5000 mA 2500 mA 2000 mA	16.5W 25W 30W 30W	TD6-16S123.3 TD6-25S1205 TD6-30S1212 TD6-30S1215	TD6-16S243.3 TD6-25S2405 TD6-30S2412 TD6-30S2415	TD6-16S483.3 TD6-25S4805 TD6-30S4812 TD6-30S4815
±5 VDC ±12 VDC ±15 VDC	±2500 mA ±1250 mA ±1000 mA	25W 30W 30W	TD6-25D1205 TD6-30D1212 TD6-30D1215	TD6-25D2405 TD6-30D2412 TD6-30D2415	TD6-25D4805 TD6-30D4812 TD6-30D4815
5/±12 VDC 5/±15 VDC	3500/±310 mA 3500/±250 mA	25W 25W	TD6-25T120512 TD6-25T120515	TD6-25T240512 TD6-25T240515	TD6-25T480512 TD6-25T480515

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Nominal Line, 9-18V Input.....12 VDC
 18-36V Input.....24 VDC
 36-72V Input.....48 VDC
 Input Filter.....Pi Filter

OUTPUT SPECIFICATIONS

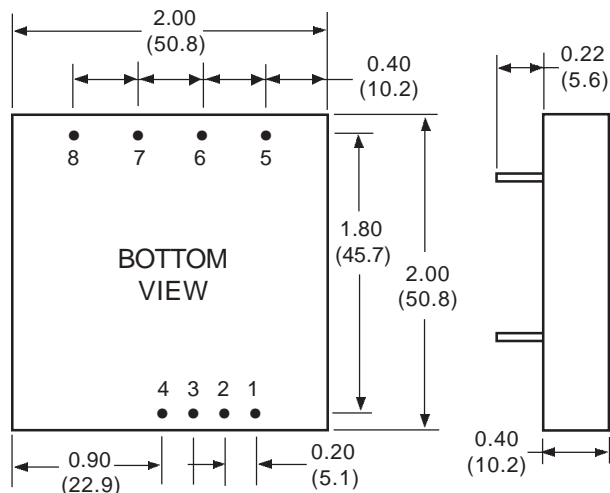
Voltage Accuracy, Single.....±2%, Max.
 Dual +Output.....±2%, Max.
 -Output.....±3%, Max.
 Triple, 5V.....±2%, Max.
 12V/15V.....±5%, Max.
 Voltage Balance, Dual.....±1%, Max.
 External Trim Adjustment Range.....±10%
 Line Regulation, Single/Dual, HL-LL.....±0.5%, Max.
 Triple, HL-LL.....±1%, Max.
 Load Regulation, Single/Dual, 25%FL-FL.....±1%, Max.
 Triple, 25%FL-FL.....±5%, Max.
 Transient Response.....500 mSec, Max.
 Ripple and Noise, 20MHz BW.....75mVp-p, Max.
 Short Circuit Protection.....Continuous

GENERAL SPECIFICATIONS

Efficiency.....74% - 85%
 Isolation Voltage, Input to Output.....500 VDC, Min.
 Switching Frequency.....300KHz, Min.
 Operating Temperature Range.....-25°C to +71°C
 Storage Temperature Range.....-55°C to +105°C
 Case Temperature.....100°C, Max.
 Cooling.....Free-Air Convection
 EMI/RFI.....Six-Sided Continuous Shield
 Case Material.....Metal with Non-Conductive Base

REMOTE ON/OFF CONTROL	
Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	>+5.5 VDC or Open Circuit
Ec-OFF	<1.8 VDC
Shutdown Idle Current	10 mA
Input Resistance	>100K ohms (Ein 0V to 9V DC)
Control Common	Referenced to Input Minus

PIN CONNECTIONS			
PIN	SINGLE	DUAL	TRIPLE
1	Remote	Remote	Remote
2	No Pin	No Pin	No Pin
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	Trim	Trim	-Aux.Out
6	-Vout	-Vout	Common
7	+Vout	Common	+5V Out
8	No Pin	+Vout	+Aux.Out



PIN SIZE: 0.04 INCH (1.0 mm) DIA.
 ALL DIMENSIONS IN INCHES (mm)

Rev. A 01/2008