



TRUMPower
DC/DC CONVERTERS

TC8-R Series

2:1 Input, 12.5 to 20 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	MODEL NUMBER	
			18-36 VDC IN	36-72 VDC IN
2.5 VDC	5A	12.5W	TC8-13S242.5R	TC8-13S482.5R
3.3 VDC	5A	16.5W	TC8-17S243.3R	TC8-17S483.3R
5 VDC	4A	20W	TC8-20S2405R	TC8-20S4805R

Other input/output combinations available.

ELECTRICAL SPECIFICATIONS

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

INPUT SPECIFICATIONS

Nominal Line, 18-36V Input.....24 VDC

36-72V Input.....48 VDC

Input Filter.....Pi Filter

OUTPUT SPECIFICATIONS

Voltage Accuracy.....±1%, Max.

Line Regulation, HL-LL.....±0.2%, Max.

Load Regulation, FL-25%FL.....±1.0%, Max.

Ripple and Noise, 20MHz BW.....75mVp-p, Max.

Minimum Load.....10%

Short Circuit Protection.....Continuous

Current Limit Threshold.....110-140%

Output Adjustment Range.....±10%

GENERAL SPECIFICATIONS

Efficiency.....81% - 86%

Isolation Voltage, Input to Output.....500 VDC, Min.

Switching Frequency.....500 kHz, Min.

Operating Temperature Range.....-25°C to +71°C

Storage Temperature Range.....-40°C to +100°C

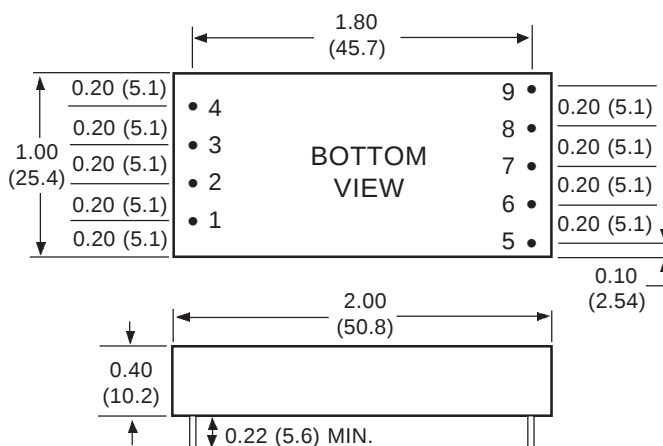
Case Temperature.....+100°C, Max.

Cooling.....Free Air Convection

EMI/RFI.....Six-Sided Continuous Shield

Case Material.....Black Coated Copper with
Non-Conductive Base

PIN CONNECTIONS	
PIN	FUNCTION
1	Remote On/Off
2	No Pin
3	-Vin
4	+Vin
5	Trim
6	No Pin
7	-Vout
8	No Pin
9	+Vout



PIN SIZE: 0.04 INCH (1.0 mm) DIA.

ALL DIMENSIONS IN INCHES (mm)

REMOTE ON/OFF CONTROL	
Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	>+5.5 VDC or Open Circuit
Ec-OFF	<1.8 VDC
Control Common	Referenced to Input Minus