



TRUMPower

DC/DC CONVERTERS

TA2S Series

SMD, 2:1 Input, 5-6 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER		
			9-18 VDC IN	18-36 VDC IN	36-75 VDC IN
3.3 VDC	1000 mA	3.3W	TA2S-3S123.3	TA2S-3S243.3	TA2S-3S483.3
5 VDC	1000 mA	5W	TA2S-5S1205	TA2S-5S2405	TA2S-5S4805
12 VDC	470 mA	5.6W	TA2S-6S1212	TA2S-6S2412	TA2S-6S4812
15 VDC	400 mA	6W	TA2S-6S1215	TA2S-6S2415	TA2S-6S4815
±5 VDC	±500 mA	5W	TA2S-5D1205	TA2S-5D2405	TA2S-5D4805
±12 VDC	±230 mA	5.5W	TA2S-6D1212	TA2S-6D2412	TA2S-6D4812
±15 VDC	±190 mA	5.7W	TA2S-6D1215	TA2S-6D2415	TA2S-6D4815

For 1.5K VDC isolation, add suffix "C" to the model number.
Add suffix "T" for remote on/off control.

ELECTRICAL SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage.....See Table
Nominal Input.....12, 24, 48 VDC
Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy.....±2%, Max.
Line Regulation.....±0.5%, Max.
Load Regulation, Single Output, 10%FL-FL...±0.5%, Max.
Dual Output, 1/4FL-FL.....±1%, Max.
Minimum Load.....10% on Each Output
Ripple and Noise, 20MHz BW, 3.3V/5V..100 mVp-p, Max.
12V/15V.....1% p-p Max.
Short Circuit Protection.....Continuous
Temperature Coefficient.....±0.02%/C, Max.

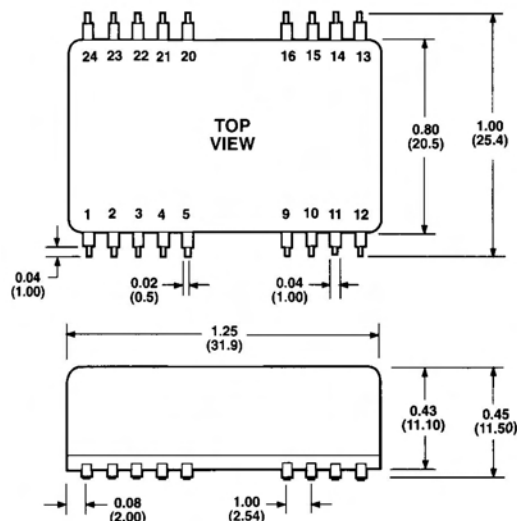
GENERAL SPECIFICATIONS

Efficiency.....70 - 82%
Isolation Voltage, Input to Output.....500 VDC, Min.
For 1.5K VDC Isolation, Add Suffix "C"
Isolation Resistance.....10⁹ Ohms, Min.
Switching Frequency.....100 kHz, Min.
Operating Temperature, No Derating.....-25°C to +71°C
Storage Temperature Range.....-40°C to +125°C
Cooling.....Free Air Convection
Case Material.....Black Coated Copper
with Non-Conductive Base

PIN CONNECTIONS for 500V ISOLATION		
FUNCTION	PIN #	
	SINGLE	DUAL
+V Input	1, 24	1, 24
-V Input	12, 13	12, 13
+V Output	11, 14	11, 14
Common	-	10, 15
-V Output	10, 15	2, 23
No Connection	2, 3, 4, 5, 9, 16, 20, 21, 22, 23	4, 5, 9, 16, 20, 21

PIN CONNECTIONS for 1.5KV ISOLATION		
FUNCTION	PIN #	
	SINGLE	DUAL
+V Input	22, 23	22, 23
-V Input	2, 3	2, 3
+V Output	14	14
Common	-	9, 16
-V Output	16	11
No Connection	1, 4, *5, 9, 10, 11, 12, 13, 15, 20, 21, 24	1, 4, *5, 10, 12, 13, 15, 20, 21, 24

*Pin #5 is Remote on/off control (suffix "T") or NC.



ALL DIMENSIONS IN INCHES (mm)

Rev. A -01/2008-