



TRUMPower

DC/DC CONVERTERS

TA2W Series

4:1 Input, 24-pin DIP, 4-6 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	*OUTPUT POWER	*MODEL NUMBER	
			9-36 VDC IN	18-72 VDC IN
3.3 VDC	1200 mA	4W	TA2W-4S243.3	TA2W-4S483.3
5 VDC	800 mA	4W	TA2W-4S2405	TA2W-4S4805
12 VDC	333 mA	4W	TA2W-4S2412	TA2W-4S4812
15 VDC	267 mA	4W	TA2W-4S2415	TA2W-4S4815
24 VDC	167 mA	4W	TA2W-4S2424	TA2W-4S4824
±3.3 VDC	±600 mA	4W	TA2W-4D243.3	TA2W-4D483.3
±5 VDC	±400 mA	4W	TA2W-4D2405	TA2W-4D4805
±12 VDC	±167 mA	4W	TA2W-4D2412	TA2W-4D4812
±15 VDC	±133 mA	4W	TA2W-4D2415	TA2W-4D4815
±24 VDC	±84 mA	4W	TA2W-4D2424	TA2W-4D4824

Other outputs also available.

*For 5W version, specify TA2W-5XXXXX; for 6W version, specify TA2W-6XXXXX.

*Add suffix "H" for 3.5KV isolation.

ELECTRICAL SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage.....See Table
 Nominal Input, 9-36V Input.....24 VDC
 18-72V Input.....48 VDC
 Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy.....±1%, Max.
 Voltage Balance, Balance Load.....±1%, Max.
 Line Regulation.....±0.5%, Max.
 Load Regulation, 10%FL-FL.....±0.5%, Max.
 Minimum Load.....10% on Each Output
 Ripple and Noise, 20MHz BW.....60 mVp-p, Max.
 Short Circuit Protection.....Continuous

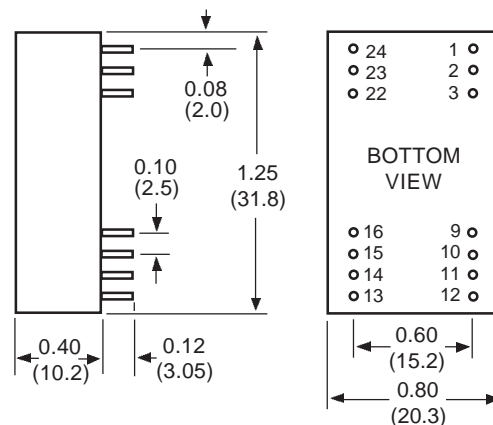
GENERAL SPECIFICATIONS

Efficiency.....74 - 80%
 Isolation Voltage, Input to Output.....1,500 VDC, Min.
 Suffix "H".....3,500 VDC, Min.
 Isolation Resistance.....10⁹ Ohms, Min.
 Switching Frequency.....250 kHz, Typ.
 Operating Temperature, No Derating.....-25°C to +71°C
 Storage Temperature Range.....-40°C to +125°C
 Cooling.....Free Air Convection
 MTBF per MIL-HDBK-217F @25°C.....>1,000k Hours
 Weight.....0.75 oz. (21.5 grams)
 Case Material, Standard.....Non-Conductive Plastic
 Suffix "M"....Metal with Non-Conductive Base

PIN CONNECTIONS				
ISOL.	1.5K VDC		3.5K VDC	
FUNC.	SINGLE	DUAL	SINGLE	DUAL
+Vin	1, 24	1, 24	22,23	22, 23
-Vin	12, 13	12, 13	2,3	2, 3
+Vout	11, 14	11, 14	14	14
Com.	-	3,10,15,22	-	9, 16
-Vout	10, 15	2, 23	16	11
*NC	2,3,22,23	-	11	-

*NC: No connection.

No pin on other pin locations.



PIN SIZE: 0.02 INCH (0.5mm) DIA. OR 0.02 X 0.14 INCH
 ALL DIMENSIONS IN INCHES (mm)