TRUMPower
DC/DC CONVERTERS

UL Listed TA-H Series
2:1 Input, 24-pin DIP, 3 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER			
			4.5-6.0 VDC IN	9-18 VDC IN	18-36 VDC IN	36-72 VDC IN
3.3 VDC	600 mA	2W	TA-2S053.3H	TA-2S123.3H	TA-2S243.3H	TA-2S483.3H
5 VDC	600 mA	3W	TA-3S0505H	TA-3S1205H	TA-3S2405H	TA-3S4805H
12 VDC	250 mA	3W	TA-3S0512H	TA-3S1212H	TA-3S2412H	TA-3S4812H
15 VDC	200 mA	3W	TA-3S0515H	TA-3S1215H	TA-3S2415H	TA-3S4815H
±5 VDC	±300 mA	3W	TA-3D0505H	TA-3D1205H	TA-3D2405H	TA-3D4805H
±12 VDC	±125 mA	3W	TA-3D0512H	TA-3D1212H	TA-3D2412H	TA-3D4812H
±15 VDC	±100 mA	3W	TA-3D0515H	TA-3D1215H	TA-3D2415H	TA-3D4815H

*For 1,500 VDC isolation in a metal case, replace 'H" with 'M", e g. TA-3S4805M.

ELECTRICAL SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage.....See Table
Nominal Input.....5, 12, 24, 48 VDC
Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

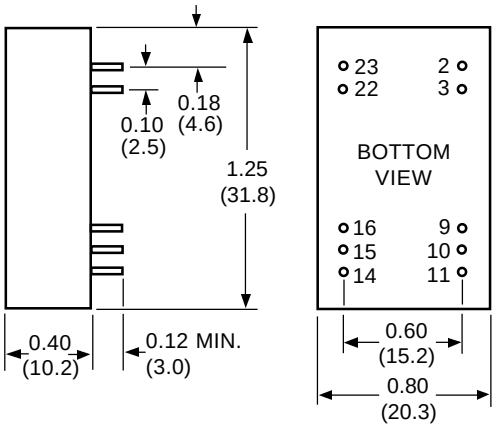
Voltage Accuracy.....±2%, Max.
Voltage Balance, Balance Load.....±1%, Max.
Line Regulation.....±0.5%, Max.
Load Regulation, Single (10%FL-FL).....±0.5%, Max.
Dual (25%FL-FL).....±1%, Max.
Ripple and Noise, 20MHz BW, 5V/3.3V...100mVp-p, Max.
12V/15V.....1% p-p, Max.
Short Circuit Protection.....Continuous
Temperature Coefficient.....±0.02%/C, Max.

GENERAL SPECIFICATIONS

Efficiency.....65 - 80%
Isolation Voltage, Input to Output, "-H".....3,000 VDC, Min.
"-M".....1,500 VDC, Min.
Isolation Resistance.....10^9 Ohms, Min.
Switching Frequency.....100 kHz
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
Safety Standard.....Approved to UL 1950
Conducted EMI....Meets FCC Class A, EN55022 Class A
Weight.....0.4 oz. (12 grams)
Case Material, "-H".....Non-Conductive Black Plastic
"-M".....Metal with Non-Conductive Base

PIN CONNECTIONS		
PIN	SINGLE	DUAL
2,3	-V Input	-V Input
9	*NC	Common
10	*NC	*NC
11	*NC	-V Output
14	+V Output	+V Output
15	*NC	*NC
16	-V Output	Common
22,23	+V Input	+V Input

*NC: No Connection with pin



PIN SIZE: 0.02 (0.5) DIA.

ALL DIMENSIONS IN INCHES (mm)

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