



**TRUMPower**  
DC/DC CONVERTERS

**UL Listed TA2A Series**  
**2:1 Input, 24-pin DIP, 5-6 Watt**

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	*MODEL NUMBER		
			9-18 VDC IN	18-36 VDC IN	36-72 VDC IN
3.3 VDC	1000 mA	3.3W	TA2A-3S123.3H	TA2A-3S243.3H	TA2A-3S483.3H
5 VDC	1000 mA	5W	TA2A-5S1205H	TA2A-5S2405H	TA2A-5S4805H
12 VDC	470 mA	5.6W	TA2A-6S1212H	TA2A-6S2412H	TA2A-6S4812H
15 VDC	400 mA	6W	TA2A-6S1215H	TA2A-6S2415H	TA2A-6S4815H
±5 VDC	±500 mA	5W	TA2A-5D1205H	TA2A-5D2405H	TA2A-5D4805H
±12 VDC	±230 mA	5.6W	TA2A-6D1212H	TA2A-6D2412H	TA2A-6D4812H
±15 VDC	±190 mA	5.7W	TA2A-6D1215H	TA2A-6D2415H	TA2A-6D4815H

\*For 1,500 VDC isolation in a metal case, replace 'H' with 'M', e.g. TA2A-5S4805M.

### 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

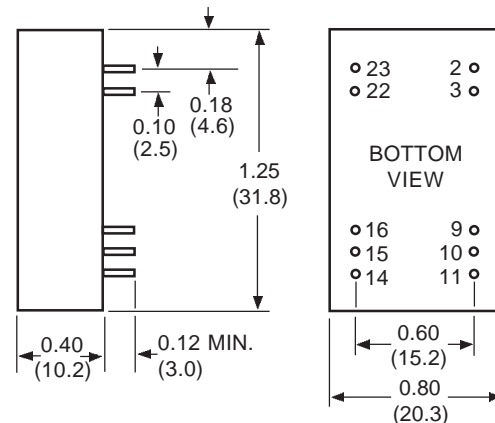
Voltage Accuracy.....±2%, Max.  
Voltage Balance, Balance Load.....±1%, Max.  
Line Regulation.....±0.5%, Max.  
Load Regulation, Single (10%FL-FL).....±0.5%, Max.  
Dual (25%FL-FL).....±1%, Max.  
Ripple and Noise, 20MHz BW, 5V/3.3V... 100mVp-p, Max.  
12V/15V.....1% p-p, Max.  
Short Circuit Protection.....Continuous  
Temperature Coefficient.....±0.05%/C, Max.

#### GENERAL SPECIFICATIONS

Efficiency.....76 - 82%  
Isolation Voltage, Input to Output, "-H".....3,000 VDC, Min.  
"-M".....1,500 VDC, Min.  
Isolation Resistance.....10<sup>9</sup> Ohms, Min.  
Switching Frequency.....100 kHz  
Operating Ambient Temperature.....-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)