

Wide Input Voltage Range (9-18Vdc, 18-36Vdc, 36-72Vdc)

**Regulated DC/DC Converters****20 Watt****FEATURES:**

- Wide Input Voltage Range
- Low Profile Package (2.0" x 1.6" x 0.40")
- High Efficiency
- Short Circuit Protection
- Over Voltage Protection
- Six-Sided Continuous Metal Shielding
- Epoxy Encapsulated
- Single and Dual Output Voltage

**SPECIFICATIONS:**

All specifications are typical at nominal input, full load, and 25° C unless otherwise noted.

**INPUT:****Input Voltage Range**

12V nominal.....9 to 18 Vdc

24V nominal.....18 to 36 Vdc

48V nominal.....36 to 72 Vdc

Input Filter.....Pi Network

**OUTPUT:**

Voltage Accuracy.....± 2%

External Trim Adjustment Range.....10% Min.

Line Regulation, Full Line.....± 0.1%

Load Regulation .....± 1.0%(Single), ± 5.0% (Dual)

Temperature Coefficient.....±0.02%/° C

Output Noise and Ripple (20MHz BW).....75mV P-P Max. Single, 100mV P-P Max. Dual

Short Circuit Protection.....Continuous

**REMOTE ON/OFF CONTROL**

On Control.....5.5V Min. or Open

Off Control.....4V Max. or Short

**GENERAL:**

Isolation Voltage.....1600 Vdc, Min.

Isolation Resistance.....10<sup>9</sup> Ohms, Min.

Switching Frequency.....300KHz, typ.

**ENVIRONMENTAL:**

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

Storage Temperature Range.....-55° C to +125° C

Cooling.....Free-Air Convection

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

**PHYSICAL:**

Dimensions.....2.0 x 1.6 x 0.40 Inches

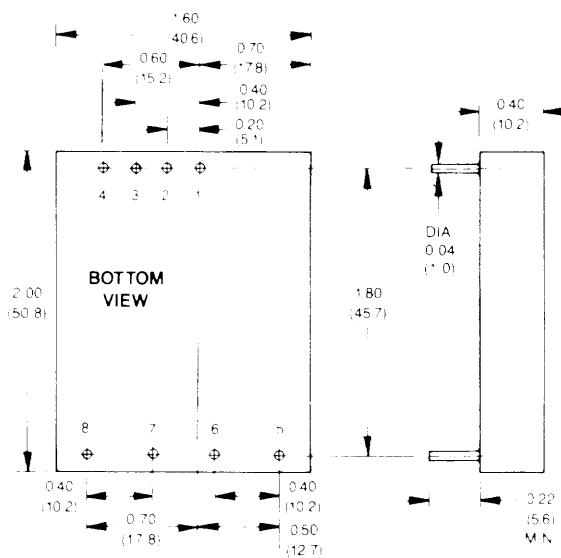
Case Material.....Nickel Coated Copper With Non-Conductive Base

# MWA20 SERIES

## REGULATED DC/DC CONVERTERS 20 WATT (CONTINUED)

2:1 INPUT RANGE		INPUT	OUTPUT	OUTPUT	% EFF	POLYTRON	CASE	PRICE
		VOLTAGE (Vdc)	VOLTAGE (Vdc)	CURRENT (mA)		MODEL NUMBER		1-9 QTY.
SINGLE VOLTAGE	9-18	5	4000mA	81	MWA20-12S5	M	\$84.00	
	9-18	12	1670mA	83	MWA20-12S12	M	\$84.00	
	9-18	15	1330mA	83	MWA20-12S15	M	\$84.00	
	18-36	5	4000mA	81	MWA20-24S5	M	\$84.00	
	18-36	12	1670mA	83	MWA20-24S12	M	\$84.00	
	18-36	15	1330mA	83	MWA20-24S15	M	\$84.00	
	36-72	5	4000mA	81	MWA20-48S5	M	\$84.00	
	36-72	12	1670mA	83	MWA20-48S12	M	\$84.00	
	36-72	15	1330mA	83	MWA20-48S15	M	\$84.00	
	DUAL VOLTAGE	9-18	±5	±2000mA	81	MWA20-12-5	M	\$88.00
		9-18	±12	±833mA	83	MWA20-12-12	M	\$88.00
		9-18	±15	±666mA	83	MWA20-12-15	M	\$88.00
		18-36	±5	±2000mA	81	MWA20-24-5	M	\$88.00
		18-36	±12	±833mA	83	MWA20-24-12	M	\$88.00
		18-36	±15	±666mA	83	MWA20-24-15	M	\$88.00
		36-72	±5	±2000mA	81	MWA20-48-5	M	\$88.00
36-72		±12	±833mA	83	MWA20-48-12	M	\$88.00	
36-72		±15	±666mA	83	MWA20-48-15	M	\$88.00	

Pin Connections		
Pin #	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	No Pin	No Pin
4	On/Off	On/Off
5	No Pin	+Vout
6	+Vout	Common
7	Common	-Vout
8	Trim	Trim



ALL DIMENSIONS IN INCHES(mm)