



30 WATT SINGLE OUTPUT

Regulated, Wide Input Range
DC/DC Converters



FEATURES

- **Input/Output Isolation (1600Vdc Min.)**
- **Wide Input Voltage Range**
- **Low Profile Package (2.0" x 1.6" x 0.40")**
- **Efficiency to 91%**
- **Short Circuit and Over-Voltage Protection**
- **Six-Sided Continuous Metal Shielding**
- **Epoxy Encapsulated**
- **On/Off Control**

MWA30 Series

Specifications

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

INPUT

Voltage Range.....See Chart
Input Filter.....Pi Network

OUTPUT

Voltage Accuracy.....±1.0%
Line Regulation: Single Output.....±0.2%
Load Regulation: Single Output.....±0.5%
External Trim Adjustment Range.....±10%
Ripple Noise (20 MHz BW).....50-75mVp-p
Temperature Coefficient (at FL).....±0.02%/°C
Transient Response, 25% load step.....500ms
Transient Voltage Peak Deviation.....1% of Vout

REMOTE ON/OFF CONTROL

Control Voltage Reference to Negative (-) Input
Compatibility.....CMOS, TTL
On Control.....4.8V min. or Open
Off Control.....0.4V max. or Short

GENERAL

Efficiency.....Up to 91% (see chart)
Isolation Voltage.....1600 Vdc min.
Isolation Resistance.....1000MOhms
Switching Frequency.....300KHz typ.
Protection.....Over Voltage Protection
.....Continuous Short Circuit Protection

ENVIRONMENTAL

Operating Temperature Range.....-25 to +71°C
Maximum Case Temperature.....+100°C
Storage Temperature Range.....-55 to +105°C
CoolingFree Air Convection
EMI/RFI.....Six-Sided Continuous Shield

PHYSICAL

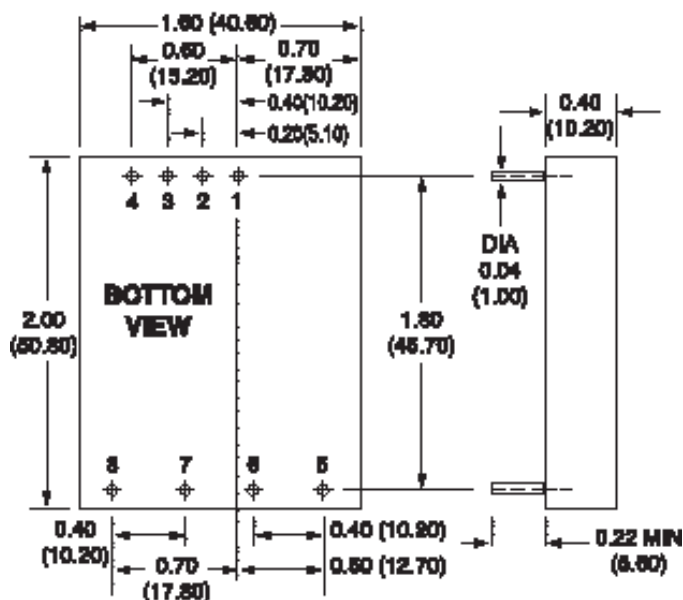
Case Material.....Nickel-coated Copper w/
Non-Conductive Base
Dimensions.....2.00" x 1.60" x 0.40"
(50.8 x 40.6 x 12.2 mm)

(Continued)

SINGLE VOLTAGE OUTPUT	Input Voltage (Nominal) (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency %	Model Number	Case	
	12 (9-18)	1.5	6000	78	MWA30-12S1.5	M	
		1.8	6000	81	MWA30-12S1.8	M	
		2.5	6000	83	MWA30-12S2.5	M	
		3.3	6000	85	MWA30-12S3.3	M	
		5	6000	87	MWA30-12S5	M	
		12	2500	88	MWA30-12S12	M	
		15	2000	88	MWA30-12S15	M	
	24 (18-36)	1.8	6000	82	MWA30-24S1.8	M	
		2.5	6000	85	MWA30-24S2.5	M	
3.3		6000	86	MWA30-24S3.3	M		
5		6000	88	MWA30-24S5	M		
12		2500	91	MWA30-24S12	M		
15		2000	91	MWA30-24S15	M		
48 (36-72)	1.8	6000	83	MWA30-48S1.8	M		
	2.5	6000	85	MWA30-48S2.5	M		
	3.3	6000	87	MWA30-48S3.3	M		
	5	6000	89	MWA30-48S5	M		
	12	2500	91	MWA30-48S12	M		
	15	2000	91	MWA30-48S15	M		

Mechanical Specifications

I/O Connections	
Pin	SINGLE
1	+Vin
2	-Vin
3	No Pin
4	On/Off
5	No Pin
6	+Vout
7	-Vout
8	Trim



All Dimensions are in inches (mm)