



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

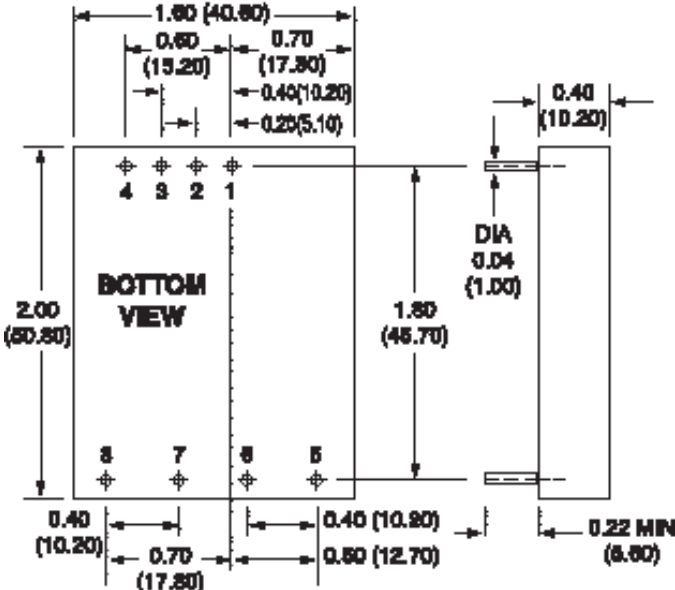
PHYSICAL

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

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)



POLYTRON DEVICES, Inc.

P.O. Box 398, Paterson, New Jersey 07544 U.S.A.

Tel: (973)345-5885 Fax: (973)345-1264 • Email: sales@polytrondevices.com • www.polytrondevices.com