



# 15 WATT SINGLE & DUAL OUTPUT

Regulated, 4:1 Input Range  
DC/DC Converters



## FEATURES

- **UL and CE Approved**
- **Wide Input Voltage Range**
- **Low Profile Package (2.0" x 1.6" x 0.40")**
- **High Efficiency (to 82% @ FL)**
- **Short Circuit & Over-Voltage Protection**
- **6-Sided Shielding**
- **Epoxy Encapsulated**

MWB15 Series

## Specifications

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

### INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9-36 Vdc
48 Vdc.....	20-72 Vdc
Input Filter.....	Pi Network

### OUTPUT

Voltage Accuracy.....	±2% max.
External Trim Adjustment Range.....	10% min.
Line Regulation .....	±0.1%
Load Regulation.....	±1.0% (Single), ±5.0% (Dual)
Ripple Noise (20 MHz BW).....	75mV p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C

### REMOTE ON/OFF CONTROL

On Control.....	4.8V min. or Open
Off Control.....	1.8V max. or Short

### GENERAL

Efficiency.....	80-82%, see Table
Isolation Voltage.....	1500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	270KHz typ.
Short Circuit Protection.....	Indefinite

### ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71°C
Storage Temperature Range.....	-55 to +125°C
Cooling .....	Free Air Convection
EMI/RFI.....	Six-Sided Continuous Shield

### PHYSICAL

Case Material.....	Nickel Coated Copper with Non-Conductive Base
Dimensions.....	2.00" x 1.60" x 0.40" (50.8 x 40.6 x 10.2 mm)

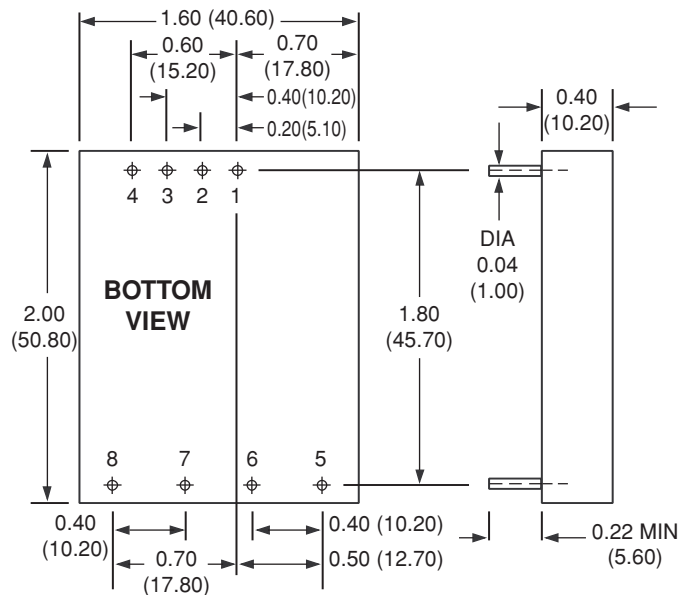
Selection Guide

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DUAL OUTPUTS SINGLE OUTPUT VOLTAGE	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency %	Model Number	Case
	12 (9-36)	5	3000	80	MWB15-24S5	M
		12	1250	82	MWB15-24S12	M
		15	1000	82	MWB15-24S15	M
	48 (20-72)	5	3000	80	MWB15-48S5	M
		12	1250	82	MWB15-48S12	M
		15	1000	82	MWB15-48S15	M
	12 (9-36)	±5	±1500	80	MWB15-24-5	M
		±12	±625	82	MWB15-24-12	M
		±15	±500	82	MWB15-24-15	M
48 (20-72)	±5	±1500	80	MWB15-48-5	M	
	±12	±625	82	MWB15-48-12	M	
	±15	±500	82	MWB15-48-15	M	

Mechanical Specifications

I/O 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 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