

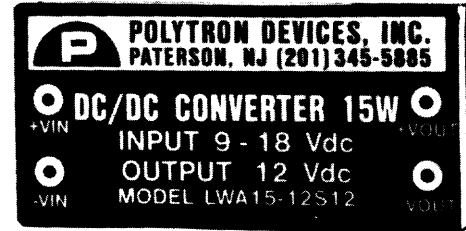
Miniature (1.0" x 2.0" x 0.40")  
Wide Input Voltage Range (9-18Vdc, 18-36Vdc, 36-72Vdc)

# Regulated DC/DC Converters

## 15 Watt

### FEATURES:

- Wide Input Voltage Range
- -40°C to +71°C Operating Temp. Range
- Low Profile Package (1.00" x 2.00" x 0.375")
- Input/Output Isolation
- Efficiency up to 86% @FL
- 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

Voltage Range.....	<b>2:1 Range</b>
12 Vdc.....	<b>9-18 Vdc</b>
24 Vdc.....	<b>18-36 Vdc</b>
48 Vdc.....	<b>36-72 Vdc</b>

#### OUTPUT:

Voltage Accuracy.....	± 2% Max.
Line Regulation,(@Full Load).....	± 0.5% Max.
Load Regulation,(Full Load to 1/2 Load).....	± 0.5% Max.
Ripple and Noise (20MHz BW).....	5V 100mV, 12V/15V 1% P-P Max.
Transient Response(Full Load to 1/2 Load).....	200 microseconds max to 1% of final value
Protection.....	Short Circuit Protection Over Voltage Protection

#### GENERAL:

Efficiency (@FL).....	Up to 86%
Isolation Voltage.....	500 Vdc, Min.
Isolation Resistance.....	10 <sup>9</sup> Ohms, Min.
Switching Frequency.....	200KHz, typ.

#### ENVIRONMENTAL:

Operating Temperature Range.....	-25° C to +71° C * (-40° C to +71° C available)
Storage Temperature Range.....	-40° C to +105° C
Temperature Coefficient (@FL).....	±0.02% /° C Max.
Cooling.....	Free-Air Convection
EMI/RFL.....	Six-Sided Continuous Shield

#### PHYSICAL:

Weight.....	1.5 oz.(42.52 grams)
Dimensions.....	1.00 x 2.00 x .0375 Inches (25.4 x 50.8 x 10.2mm)
Case Material.....	Nickel Coated Copper With Non-Conductive Base

\*For -40°C to +71°C operating temperature range, use suffix "W" after model number.



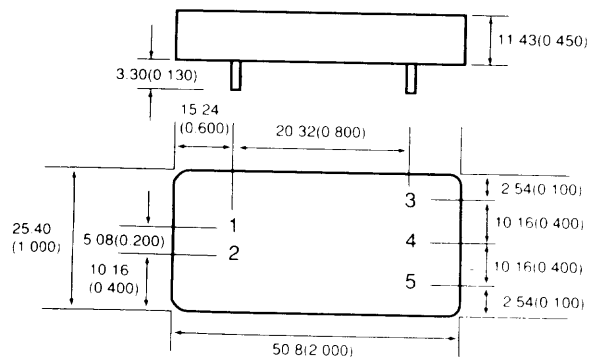
# LWA15 SERIES

## REGULATED DC/DC CONVERTERS 15 WATT (CONTINUED)

2:1 INPUT RANGE	SINGLE VOLTAGE	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% EFF	POLYTRON MODEL NUMBER	PRICE 1-9 QTY.
		DUAL VOLTAGE	9-18		3.3	4000	79
	5			3000	79	LWA15-12S5	\$79.00
	12			1250	80	LWA15-12S12	\$79.00
	15			1000	80	LWA15-12S15	\$79.00
18-36			3.3	4000	89	LWA15-24S33	\$79.00
			5	3000	79	LWA15-24S5	\$79.00
			12	1250	80	LWA15-24S12	\$79.00
			15	1000	80	LWA15-24S15	\$79.00
36-72			3.3	4000	80	LWA15-48S33	\$79.00
			5	3000	79	LWA15-48S5	\$79.00
			12	1250	80	LWA15-48S12	\$79.00
			15	1000	80	LWA15-48S15	\$79.00
9-18	±5		±1500	82	LWA15-12-5	\$85.00	
			±625	80	LWA15-12-12	\$85.00	
			±500	80	LWA15-12-15	\$85.00	
	18-36	±5		±1500	83	LWA15-24-5	\$85.00
				±625	80	LWA15-24-12	\$85.00
				±500	80	LWA15-24-15	\$85.00
	36-72	±5		±1500	83	LWA15-48-5	\$85.00
				±625	80	LWA15-48-12	\$85.00
				±500	80	LWA15-48-15	\$85.00



Pin Connections		
Pin #	Single	Dual
1	+Input	+Input
2	-Input	-Input
3	+Output	+Output
4	No Pin	Common
5	-Output	-Output



Options Available	Suffix	Price Adder
-40°C to +71°C	WA	\$4.00

