

2:1 & 4:1 Wide Input Voltage Range (9-18, 18-36, 36-72, 9-36, 18-72Vdc)

Regulated DC/DC Converters

5 Watt

FEATURES:

- Wide Input Voltage Range
- -40°C to +85°C Operating Temp. Range
- Low Profile Package (1.00" x 2.00" x 0.375")
- Input/Output Isolation
- Efficiency up to 82% @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	
	<u>LWA5 SERIES</u>	<u>LWB5 SERIES</u>
12V nominal.....	9 to 18 Vdc	24V nominal.....9 to 36 Vdc
24V nominal.....	18 to 36 Vdc	48V nominal.....18 to 72 Vdc
48V nominal.....	36 to 72 Vdc	
Input Filter.....	Pi Network	

OUTPUT:

Voltage Accuracy.....	± 2%
Line Regulation, LL-HL.....	± 1.0%
Load Regulation, 100% to 10%.....	± 1.0%(Single), ±2.0% (Dual)
Temperature Coefficient.....	± 0.02%/° C
Transient Response Recovery Time, 25% load step	
Change.....	500µs
Output Noise and Ripple (20MHz BW)	
Single Output.....	50mV P-P Max, 35mV RMS Max
Dual Outputs.....	75mV P-P Max, 50mV RMS Max

GENERAL:

Isolation Voltage.....	1500 Vdc, Min.
Isolation Resistance.....	10 ⁹ Ohms, Min.
Switching Frequency.....	200KHz, typ.

ENVIRONMENTAL:

Operating Temperature Range.....	-25°C to +71°C * (-40°C to +85°C available)
Storage Temperature Range.....	-40°C to +105°C
Cooling.....	Free-Air Convection
EMI/RFL.....	Six-Sided Continuous Shield

PHYSICAL:

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 +85°C operating temperature range, use suffix "W" after model number.

LWA5/LWB5 SERIES

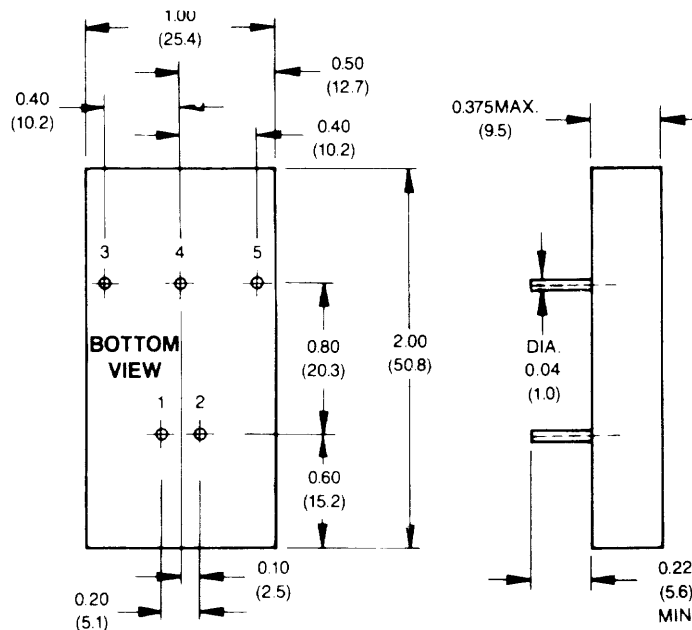
REGULATED DC/DC CONVERTERS 5 WATT (CONTINUED)

2:1 INPUT RANGE		INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% Eff.	POLYTRON MODEL NUMBER	CASE	PRICE 1-9 QTY.
		SINGLE VOLTAGE						
		9-18	3.3	1000	73	LWA5-12S33	P	\$49.00
		9-18	5	1000	77	LWA5-12S5	P	\$49.00
		9-18	12	470	80	LWA5-12S12	P	\$49.00
		9-18	15	400	79	LWA5-12S15	P	\$49.00
		18-36	3.3	1000	74	LWA5-24S33	P	\$49.00
		18-36	5	1000	79	LWA5-24S5	P	\$49.00
		18-36	12	470	82	LWA5-24S12	P	\$49.00
		18-36	15	400	82	LWA5-24S15	P	\$49.00
		36-72	5	1000	80	LWA5-48S5	P	\$49.00
		36-72	12	470	84	LWA5-48S12	P	\$49.00
		36-72	15	400	84	LWA5-48S15	P	\$49.00
DUAL VOLTAGE								
		9-18	±5	±500	74	LWA5-12-5	P	\$54.00
		9-18	±12	±230	79	LWA5-12-12	P	\$54.00
		9-18	±15	±190	79	LWA5-12-15	P	\$54.00
		18-36	±5	±500	74	LWA5-24-5	P	\$54.00
		18-36	±12	±230	80	LWA5-24-12	P	\$54.00
		18-36	±15	±190	80	LWA5-24-15	P	\$54.00
		36-72	±5	±500	74	LWA5-48-5	P	\$54.00
		36-72	±12	±230	82	LWA5-48-12	P	\$54.00
		36-72	±15	±190	82	LWA5-48-15	P	\$54.00



4:1 INPUT RANGE		INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	% Eff.	POLYTRON MODEL NUMBER	CASE	PRICE 1-9 QTY.
		SINGLE VOLTAGE						
		9-36	5	1000	77	LWB5-24S5	P	\$54.00
		9-36	12	470	80	LWB5-24S12	P	\$54.00
		9-36	15	400	79	LWB5-24S15	P	\$54.00
		18-72	5	1000	79	LWB5-48S5	P	\$54.00
		18-72	12	470	82	LWB5-48S12	P	\$54.00
		18-72	15	400	82	LWB5-48S15	P	\$54.00
DUAL VOLTAGE								
		9-36	±5	±230	79	LWB5-24-5	P	\$59.00
		9-36	±12	±190	79	LWB5-24-12	P	\$59.00
		9-36	±15	±230	80	LWB5-24-15	P	\$59.00
		18-72	±5	±190	80	LWB5-48-5	P	\$59.00
		18-72	±12	±230	82	LWB5-48-12	P	\$59.00
		18-72	±15	±190	82	LWB5-48-15	P	\$59.00

Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout



ALL DIMENSIONS IN INCHES(mm)