



5 WATT SINGLE & DUAL OUTPUT

**Isolated, Wide Input
DC/DC Converters
2:1 to 4:1 Input Voltage**



FEATURES

- Wide Input Range (2:1, 4:1)
- -40° to +85°C Operating Temp. Range
- Low Profile Package (1.0" x 2.0" x 0.4")
- Input/Output Isolation
- Efficiency to 82% @ FL
- Short Circuit & Over-Voltage Protection
- 6-Sided Continuous Metal Shielding
- Epoxy Encapsulated

LWA5, LWB5 Series

Specifications

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

INPUT

LWA5 Series (2:1).....	See Table
LWB5 Series (4:1).....	See Table
Input Filter.....	Pi Network

OUTPUT

Voltage Accuracy.....	±2%
Line Regulation.....	±1.0%
Load Regulation.....	±1.0% (Single Output) ±2.0% (Dual Output)
Ripple Noise (20MHz Bw).....	50mV p-p max. (Single Output) 75mV p-p max. (Dual Output)
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response Recovery Time.....	500µs

GENERAL

Efficiency.....	82% max.
Isolation Voltage.....	1500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	200KHz min.

ENVIRONMENTAL

Operating Temperature Range.....	-40° to +85°C (with derating)
Storage Temperature Range.....	-55° to +105°C
Cooling.....	Free Air Convection
EMI/RFI.....	Six-Sided Continuous Shield

PHYSICAL

Case Material.....	Nickel Coated Copper w/ Non-conductiveBase
Dimensions.....	1.00" x 2.00" x 0.40" 25.14 x 50.8 x 10.02 mm

Selection Guide

(Continued)

2:1 INPUT RANGE

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency %	Model Number	Case	
SINGLE OUTPUT VOLTAGE	5 (4.5-5.5)	3.3	1000	75	LWA5-5S33	P	
		5	1000	76	LWA5-5S5	P	
		12	470	78	LWA5-5S12	P	
		15	400	78	LWA5-5S15	P	
	12 (9-18)	3.3	1000	73	LWA5-12S33	P	
		5	1000	77	LWA5-12S5	P	
		12	470	80	LWA5-12S12	P	
		15	400	79	LWA5-12S15	P	
	24 (18-36)	3.3	1000	74	LWA5-24S33	P	
		5	1000	79	LWA5-24S5	P	
		12	470	82	LWA5-24S12	P	
		15	400	82	LWA5-24S15	P	
48 (36-72)	3.3	1000	75	LWA5-48S33	P		
	5	1000	80	LWA5-48S5	P		
	12	470	84	LWA5-48S12	P		
	15	400	84	LWA5-48S15	P		
DUAL OUTPUT VOLTAGE	5 (4.5-5.5)	±5	±500	76	LWA5-5-5	P	
		±12	±230	78	LWA5-5-12	P	
		±15	±190	78	LWA5-5-15	P	
	12 (9-18)	±5	±500	74	LWA5-12-5	P	
		±12	±230	79	LWA5-12-12	P	
		±15	±190	79	LWA5-12-15	P	
	24 (18-36)	±5	±500	74	LWA5-24-5	P	
		±12	±230	80	LWA5-24-12	P	
		±15	±190	80	LWA5-24-15	P	
	48 (36-72)	±5	±500	74	LWA5-48-5	P	
		±12	±230	82	LWA5-48-12	P	
		±15	±190	82	LWA5-48-15	P	

4:1 INPUT RANGE

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (Ma)	Efficiency %	Model Number	Package	
SINGLE OUTPUT VOLTAGE	12 (9-36)	5	1000	77	LWB5-24S5	P	
		12	470	80	LWB5-24S12	P	
		15	400	79	LWB5-24S15	P	
	48 (18-72)	5	1000	74	LWB5-48S5	P	
		12	470	82	LWB5-48S12	P	
		15	400	82	LWB5-48S15	P	
DUAL OUTPUTS	12 (9-36)	±5	±500	79	LWB5-24-5	P	
		±12	±230	79	LWB5-24-12	P	
		±15	±190	80	LWB5-24-15	P	
	48 (18-72)	±5	±500	80	LWB5-48-5	P	
		±12	±230	82	LWB5-48-12	P	
		±15	±190	82	LWB5-48-15	P	

(See next page for diagram)



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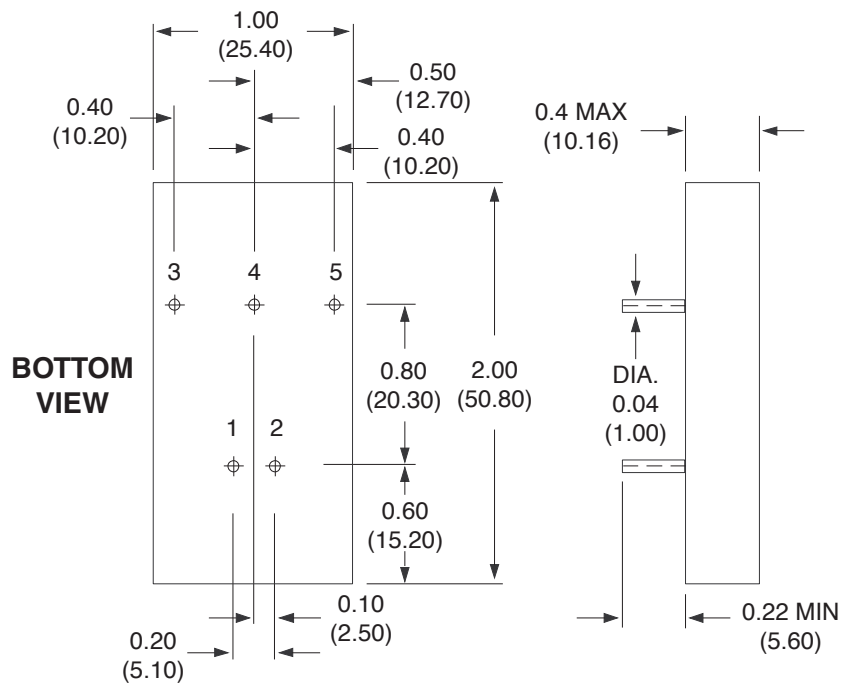
P.O. Box 398, Paterson, New Jersey 07544 U.S.A.

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

Mechanical Specifications

(Continued)

I/O Connections		
Pin	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout



All Dimensions are in inches (mm)



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