



# 15 WATT SINGLE & DUAL OUTPUT

## Isolated, Wide Input DC/DC Converters



### FEATURES

- UL & CE Approved
- -40°C to +85°C  
Operating Temp. Range
- Low Profile Package  
(1.0" x 2.0" x 0.40")
- Input/Output Isolation
- Efficiency to 86% @ FL
- Short Circuit & Over-  
Voltage Protection
- 6-Sided Continuous  
Metal Shielding
- Epoxy Encapsulated

LWA15 Series

### Specifications

Typical at 25°C under full load and nominal input voltage, unless otherwise specified

#### INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9-18 Vdc
24 Vdc.....	18-36 Vdc
48 Vdc.....	36-72 Vdc

#### OUTPUT

Voltage Accuracy.....	±2% max.
Line Regulation .....	±0.5% max.
Load Regulation.....	±0.5% max.
Ripple Noise (20 MHz BW)	
5 V.....	100mV p-p max.
12V, 15.....	1% Vout p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response, 25% load step.....	200µms max.

#### GENERAL

Efficiency.....	79-89%, see Table
Isolation Voltage.....	1500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	200KHz typ.
Protection.....	Short Circuit Protection
	Over Voltage Protection

#### 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 with Non-Conductive Base
Weight.....	1.5 oz. (42.52 grams)
Dimensions.....	1.00" x 2.00" x 0.40" (25.4 x 50.8 x 10.16 mm)

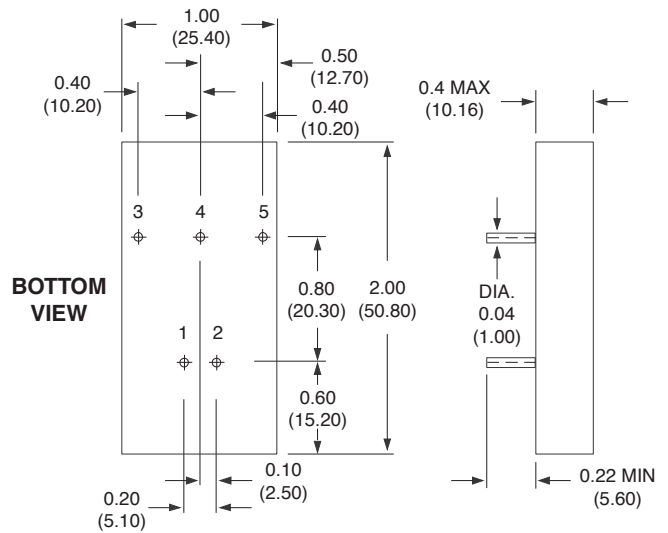
Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency %	Model Number	Case
SINGLE OUTPUT VOLTAGE	12 (9-18)	3.3	4000	79	LWA15-12S33	P
		5	3000	79	LWA15-12S5	P
		12	1250	80	LWA15-12S12	P
		15	1000	80	LWA15-12S15	P
	24 (18-36)	3.3	4000	89	LWA15-24S33	P
		5	3000	79	LWA15-24S5	P
		12	1250	80	LWA15-24S12	P
		15	1000	80	LWA15-24S15	P
	48 (36-72)	3.3	4000	80	LWA15-48S33	P
		5	3000	79	LWA15-48S5	P
		12	1250	80	LWA15-48S12	P
		15	1000	80	LWA15-48S15	P
DUAL OUTPUTS	12 (9-18)	±5	±1500	82	LWA15-12-5	P
		±12	±625	80	LWA15-12-12	P
		±15	±500	80	LWA15-12-15	P
	24 (18-36)	±5	±1500	83	LWA15-24-5	P
		±12	±625	80	LWA15-24-12	P
		±15	±500	80	LWA15-24-15	P
	48 (36-72)	±5	±1500	83	LWA15-48-5	P
		±12	±625	80	LWA15-48-12	P
		±15	±500	80	LWA15-48-15	P

Mechanical Specifications

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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