



15 WATT SINGLE & DUAL OUTPUT

1" x 2" x 0.40" Package
Isolated, 4:1 Wide Input
DC/DC Converters



Specifications

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

INPUT

Input Voltages	Voltage Range
12 Vdc.....	9-36 Vdc
48 Vdc.....	18-72 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.
12 V, 15	1% Vout p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response, 25% load step	200µms max.

REMOTE ON/OFF* (OPTIONAL)

Positive Logic	DC-DC On Open 3V < Vr < 12V
.....	DC-DC Off Short or 0V < Vr < 1.2V
Negative Logic	DC-DC On Short of 0V < Vr < 1.2V
.....	DC-DC Off Open or 3V < Vr < 12V

GENERAL

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

ENVIRONMENTAL

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

PHYSICAL

Case Material	Nickel Coated Coper 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)

* For **Positive On/Off** use suffix **P**
For **Negative On/Off** use suffix **N**

FEATURES

- **15 Watts in Standard Low Profile Package (1" X 2" X 0.4")**
- **4:1 Ultra Wide Input Voltage Range**
- **-40 to +85°C Operating Temp. Range (With Derating)**
- **Input/Output Isolation 1600Vdc Min.**
- **Efficiency to 88% @ FL**
- **Short Circuit & Over-Voltage Protection**
- **6-Sided Continuous Metal Shielding**
- **On/Off Control* (Optional)**
- **RoHS Compliant**

LWB15 Series

Selection Guide

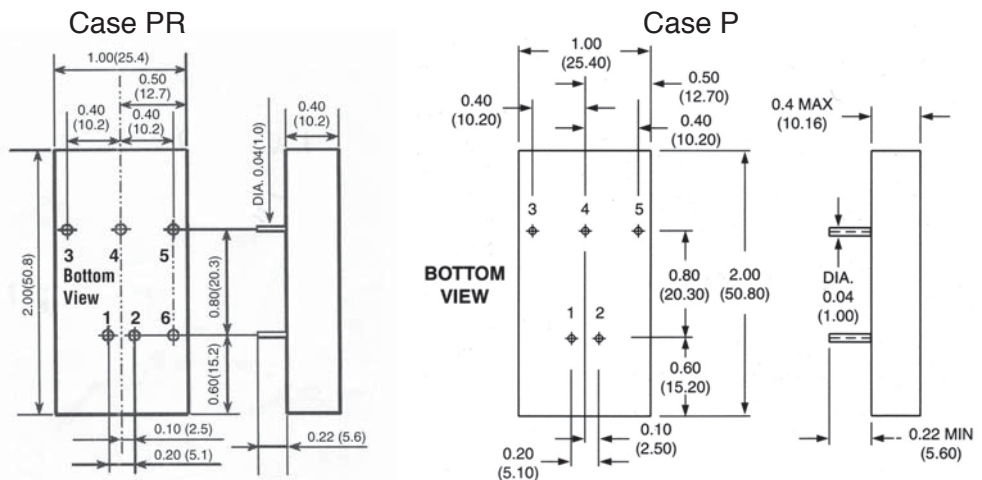
	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency (%)	Model Number	Capacitor Load Max. (µF)	Case **
SINGLE OUTPUT VOLTAGE	12 (9-36)	3.3	4500	86	LWB15-24S33	14700	P
		5	3000	87	LWB15-24S5	7200	P
		5.1	3000	87	LWB15-24S5.1	7200	P
		12	1250	87	LWB15-24S12	1250	P
		15	1000	87	LWB15-24S15	800	P
	48 (18-72)	3.3	4500	86	LWB15-48S33	14700	P
		5	3000	88	LWB15-48S5	7200	P
		5.1	3000	87	LWB15-48S5.1	7200	P
		12	1250	87	LWB15-48S12	1250	P
		15	1000	87	LWB15-48S15	800	P
DUAL OUTPUT VOLTAGE	12 (9-36)	±5	±1500	87	LWB15-24-5	±3600	P
		±12	±625	88	LWB15-24-12	±625	P
		±15	±500	88	LWB15-24-15	±400	P
	48 (18-72)	±5	±1500	88	LWB15-48-5	±3600	P
		±12	±625	88	LWB15-48-12	±625	P
		±15	±500	88	LWB15-48-15	±400	P

Mechanical Specifications

I/O CONNECTION		
PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	-Vout
4	No Pin	Common
5	-Vout	-Vout
*6	On/Off	On/Off

* On/Off pin #6 optional

** For Remote On/Off option, case PR.



All Dimensions are in inches (mm)



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