



15 WATT SINGLE & DUAL OUTPUT

Regulated, 4:1 Input Range DC/DC Converters



FEATURES

- **4:1 Wide Input Range**
- **Industry Standard Package & Pinout**
- **Efficiency to 83% @ FL**
- **500 Vdc Input/ Output Isolation**
- **6 Sided Shielding**
- **On/Off Control**
- **Output Trim**

Y15 Series

Specifications

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

INPUT

Input Voltages.....	Voltage Range
12 Vdc.....	9-36 Vdc
24 Vdc.....	18-72 Vdc
Input Filter.....	Pi Network

OUTPUT

Voltage Accuracy	
+Vout.....	±1.5%
-Vout.....	± 2.0%
Line Regulation	±1.0% max.
Load Regulation.....	± 0.5% (Single), ± 2.0% (Dual)
Ripple Noise (20 MHz BW).....	1% Vout p-p max.
Temperature Coefficient (at FL).....	± 0.02%/°C max
Transient Response.....	20ms max.

GENERAL

Efficiency.....	86% typical
Isolation Voltage.....	500 Vdc min.
Isolation Resistance.....	1000MOhms
Switching Frequency.....	100KHz
Protection.....	Over Voltage
	Fold Back Short Circuit Protection

ENVIRONMENTAL

Operating Temperature Range.....	-25 to +71°C
Storage Temperature Range.....	-55 to +105°C
Cooling.....	Free Air Convection
EMI/RFI.....	Six Sided Continuous Metal Shield

PHYSICAL

Case Material.....	Black Coated Copper w/ Non-Conductive Metal Base
Weight.....	3 oz. (9 grams)
Dimensions.....	2.00" x 2.00" x 0.45"
	50.8 x 50.8 x 11.43mm

Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case
SINGLE OUTPUT	12 (9-36)	5	3000	Y15-24S5	B2
		12	1250	Y15-24S12	B2
		15	1000	Y15-24S15	B2
	48 (18-72)	5	3000	Y15-48S5	B2
		12	1250	Y15-48S12	B2
		15	1000	Y15-48S15	B2
DUAL	12 (9-36)	±12	±625	Y15-12-12	B2
		±15	±500	Y15-12-15	B2
	48 (18-72)	±12	±625	Y15-48-12	B2
		±15	±500	Y15-48-15	B2

Available in 2.6" X 3.0" X 0.82" package (Case JY)
Use suffix JY after model number.

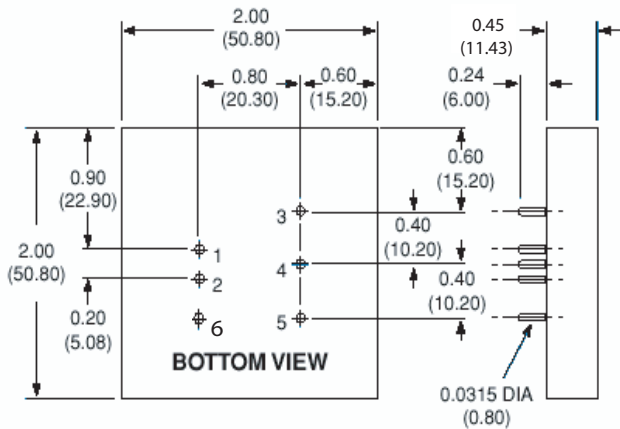
Mechanical Specifications

I/O Connections		
Pin	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	TRIM	Common
5	-Vout	-Vout
6	ON/OFF	ON/OFF

I/O Connections		
Pin	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	No Pin	+Vout
4	Trim	Common
5	No Pin	-Vout
6	+Vout	No Pin
7	-Vout	No Pin
8	ON/OFF	ON/OFF

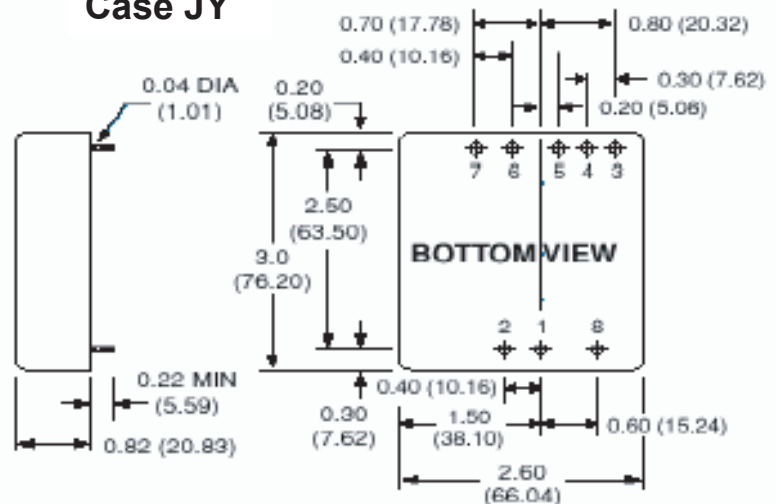
*Pin 6 optional. Use suffix "RE" after model number.

Case B2



All Dimensions are in inches (mm)

Case JY



All Dimensions are in inches (mm)

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