



5 WATT SINGLE & DUAL OUTPUT

Regulated, 4:1 Input Range
DC/DC Converters



FEATURES

- **4:1 Wide Input Range**
- **Industry Standard Package Pinout**
- **Efficiency to 72% @ FL**
- **500 Vdc Input/ Output Isolation**
- **Single & Dual Outputs**
- **No External Components Required**

Y5 Series

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
24 Vdc.....18 - 72 Vdc
Input Filter.....Pi Network

OUTPUT

Voltage Accuracy
+Vout.....±1.5%
-Vout.....±2.0%
Line Regulation.....±0.5% max.
Load Regulation.....±0.10% max.
Ripple Noise (20MHz Bw).....1% p-p max.
Temperature Coefficient (at FL).....±0.02%/°C max.
Transient Response20ms max.

GENERAL

Efficiency.....72% max.
Isolation Voltage.....500 Vdc min.
Isolation Resistance.....1000MOhms
Switching Frequency.....50 - 70KHz typical
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 0.40"

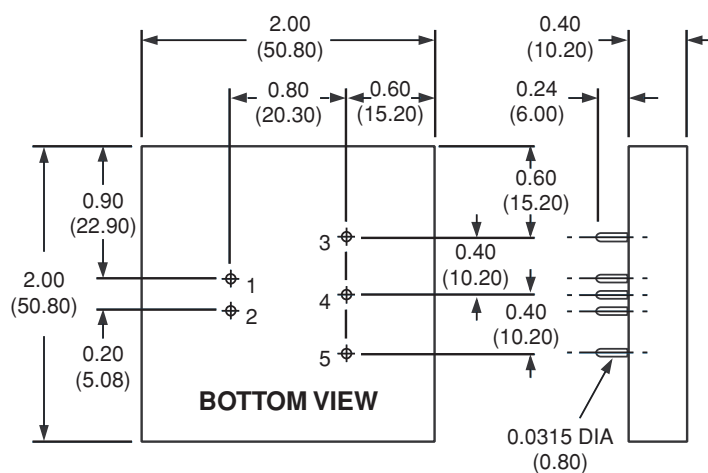
Selection Guide

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SINGLE OUTPUT VOLTAGE	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case	
	24 (9-36)	5	1000	Y5-24S5	B2	
		12	417	Y5-24S12	B2	
		15	334	Y5-24S15	B2	
	48 (18-72)	5	1000	Y5-48S5	B2	
		12	417	Y5-48S12	B2	
		15	334	Y5-48S15	B2	
DUAL OUTPUTS	24 (9-36)	±5	±500	Y5-24-5	B2	
		±12	±210	Y5-24-12	B2	
		±15	±170	Y5-24-15	B2	
	48 (18-72)	±5	±500	Y5-48-5	B2	
		±12	±210	Y5-48-12	B2	
		±15	±170	Y5-48-15	B2	

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)