



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.....	±0.1% max.
Ripple Noise (20MHz Bw).....	1% p-p max.
Temperature Coefficient (at FL).....	±0.02%/°C max.
Transient Response	20ms 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"

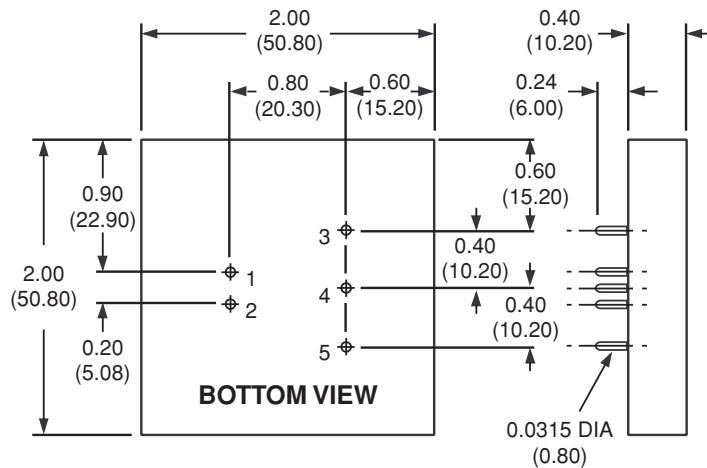
Selection Guide

(Continued)

	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	Case	
SINGLE OUTPUT VOLTAGE	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)



POLYTRON DEVICES, Inc.

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