

# Regulated DC/DC Converter 5Watt 4:1 Input Range

Y5 Series

**SPECIFICATIONS:** Typical @ 25°C Under Full Load and Nominal Input Voltage Unless Otherwise Specified

## INPUT

Input Voltage ..... 9-36 Vdc  
 Input Filter ..... 18-72 Vdc  
 PI Network

## OUTPUT

Voltage Accuracy: ..... + Output  $\pm 1.5\%$   
 - Output  $\pm 2\%$   
 Line Regulation: ..... 10W, 15W Series:  $\pm 1\%$  Max  
 5W Series:  $\pm 0.5\%$  Max  
 Load Regulation: ..... 5W Series:  $\pm 1\%$  Max  
 10W Series: Single:  $\pm 1\%$  Max  
 Dual:  $\pm 2\%$  Max  
 15W Series: Single:  $\pm 0.5\%$  Max  
 Dual:  $\pm 2\%$  Max

Ripple and Noise (20 MHz BW): ..... 1% P-P Max

Transient Response (Full Load to  
 1/2 Load): ..... 20m Sec Max to  
 1% of Final Value

Over Voltage Protection ..... Built-in  
 Short Circuit Protection ..... Fold Back



## GENERAL

Efficiency: ..... 5W Series 72%  
 10W Series 80%  
 15W Series 86%  
 Isolation Voltage: ..... 500 Vdc Min  
 Isolation Resistance: .....  $10^9$  Ohms  
 Switching Frequency: ..... 5W and 10W Series: 50-70 KHz  
 15W Series: 100 KHz

## ENVIRONMENTAL:

Operating Temperature: ..... - 25°C to + 71°C  
 Storage Temperature: ..... - 55°C to + 105°C  
 Temperature Coefficient: ..... 0.02% / °C Max  
 Cooling: ..... Free Air Convection  
 EMI/RFI: ..... Six Sided Continuous Metal Shield

## PHYSICAL:

Case Size: ..... 2"x2"x0.4" (50.8x50.8x10.2mm)  
 Case Material: ..... Black Coated Copper with Non  
 Conductive Metal Base  
 Weight: ..... 3 oz. (9 grams)

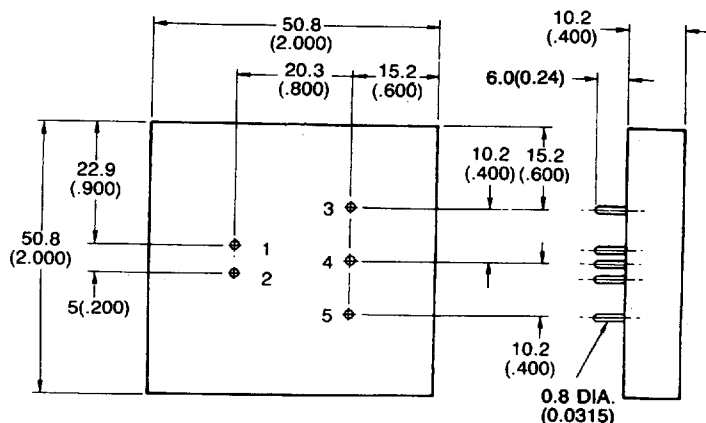
## 5W DC/DC CONVERTER

	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE VOLTAGE	9-36	5	1000	Y5-12S5	B2	\$74.00
		12	417	Y5-12S12	B2	\$74.00
		15	334	Y5-12S15	B2	\$74.00
	18-72	5	1000	Y5-24S5	B2	\$74.00
		12	417	Y5-24S12	B2	\$74.00
		15	334	Y5-24S15	B2	\$74.00
DUAL VOLTAGE	9-36	$\pm 5$	$\pm 500$	Y5-12-5	B2	\$79.00
		$\pm 12$	$\pm 210$	Y5-12-12	B2	\$79.00
		$\pm 15$	$\pm 170$	Y5-12-15	B2	\$79.00
	18-72	$\pm 5$	$\pm 500$	Y5-24-5	B2	\$79.00
		$\pm 12$	$\pm 210$	Y5-24-12	B2	\$79.00
		$\pm 15$	$\pm 170$	Y5-24-15	B2	\$79.00

## CASE B2

PIN	SINGLE	DUAL
1	+ INPUT	+ INPUT
2	- INPUT	- INPUT
3	+ OUTPUT	+ OUTPUT
4	NO PIN*	COMMON
5	- OUTPUT	- OUTPUT

\*TRIM FOR 10W, 15W SERIES



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