

# 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)

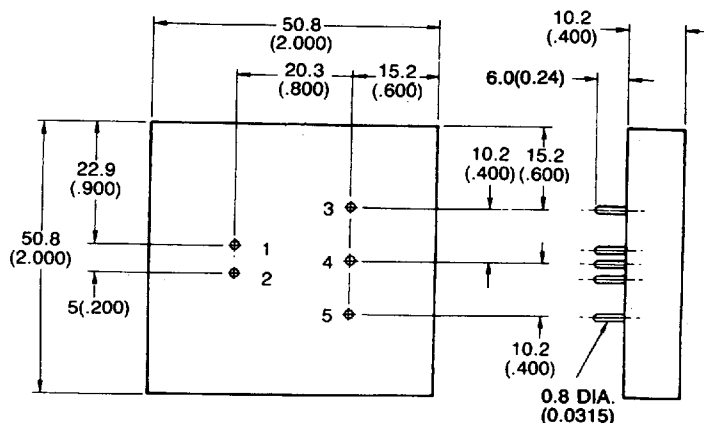
## 5W DC/DC CONVERTER

|                   | INPUT VOLTAGE<br>(Vdc) | OUTPUT VOLTAGE<br>(Vdc) | OUTPUT CURRENT<br>(mA) | MODEL NO. | CASE | PRICE<br>1-9 QTY. |
|-------------------|------------------------|-------------------------|------------------------|-----------|------|-------------------|
| SINGLE<br>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<br>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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