

# Regulated DC/DC Converter 1500 Vrms Isolation Voltage

• 2.5/3W • 24 Pin Dip Package • WIDE INPUT VOLTAGE

## FEATURES:

- Input/Output Isolation: 1500 Vrms
- Input Pi Filter
- Short Circuit Protection
- Single and Dual Outputs
- Epoxy Encapsulated

## SPECIFICATIONS:

Typical @ 25°C under full load and nominal input voltage unless otherwise specified.

## INPUT:

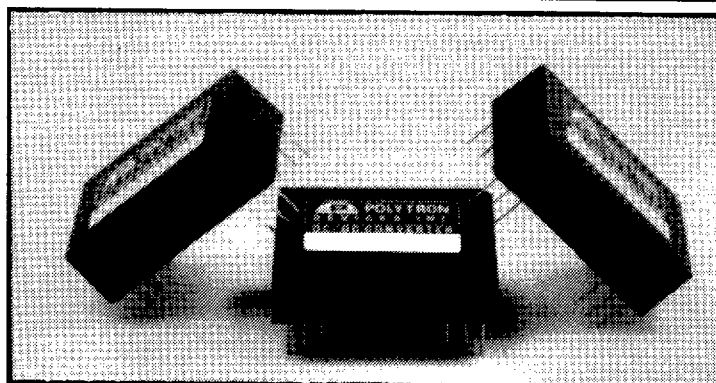
Voltage Range.....See Chart

## OUTPUT:

Voltage Accuracy.....± 4% Max  
 Line Regulation (@ FL).....± 1% Max  
 Load Regulation (Full Load to 1/4 Load).....± 1% Max  
 Ripple Noise (20 MHz Bw).....1% P-P Max  
 Temperature Coefficient (@ FL).....± 0.02%/°C  
 Short Circuit Protection..... Power Foldback

## GENERAL:

Efficiency (@FL).....70% Typical  
 Isolation Voltage.....1500 Vrms Min.  
 Isolation Resistance.....1000 Mohms  
 Switching Frequency.....25 KHz Min.



## ENVIRONMENTAL:

Operating Temperature Range.....-20°C to + 71°C  
 Storage Temperature Range.....-40°C to + 105°C  
 Derating.....None  
 Cooling..... Free Air Convection  
 Relative Humidity.....Up to 95%

## PHYSICAL:

Case Material.....Non-Conductive Plastic Case  
 Weight.....0.5 oz. (14.17 grams)  
 Dimension.....1.25" x 0.80" x 0.50"  
 (31.75 x 20.3 x 12.7 mm)

|                       | INPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mA) (Max) | INPUT CURRENT (mA) |           | MODEL NO.      | CASE | PRICE (1-9 QTY) |
|-----------------------|---------------------|----------------------|---------------------------|--------------------|-----------|----------------|------|-----------------|
|                       |                     |                      |                           | NO LOAD            | FULL LOAD |                |      |                 |
| SINGLE OUTPUT VOLTAGE | 4.5-6.0             | 5                    | 500                       | 75                 | 860       | TWA2.5-5S5-CB  | CB   | \$54.00         |
|                       |                     | 12                   | 250                       | 75                 | 1000      | TWA3-5S12-CB   | CB   | \$54.00         |
|                       |                     | 15                   | 200                       | 75                 | 970       | TWA3-5S15-CB   | CB   | \$54.00         |
|                       | 9-18                | 5                    | 500                       | 25                 | 347       | TWA2.5-12S5-CB | CB   | \$54.00         |
|                       |                     | 12                   | 250                       | 25                 | 385       | TWA3-12S12-CB  | CB   | \$54.00         |
|                       |                     | 15                   | 200                       | 25                 | 373       | TWA3-12S15-CB  | CB   | \$54.00         |
|                       | 18-36               | 5                    | 500                       | 15                 | 180       | TWA2.5-24S5-CB | CB   | \$54.00         |
|                       |                     | 12                   | 250                       | 15                 | 202       | TWA3-24S12-CB  | CB   | \$54.00         |
|                       |                     | 15                   | 200                       | 15                 | 192       | TWA3-24S15-CB  | CB   | \$54.00         |
|                       | 36-72               | 5                    | 500                       | 15                 | 90        | TWA2.5-48S5-CB | CB   | \$54.00         |
|                       |                     | 12                   | 250                       | 15                 | 104       | TWA3-48S12-CB  | CB   | \$54.00         |
|                       |                     | 15                   | 200                       | 15                 | 96        | TWA3-48S15-CB  | CB   | \$54.00         |



**POLYTRON DEVICES, INC.**

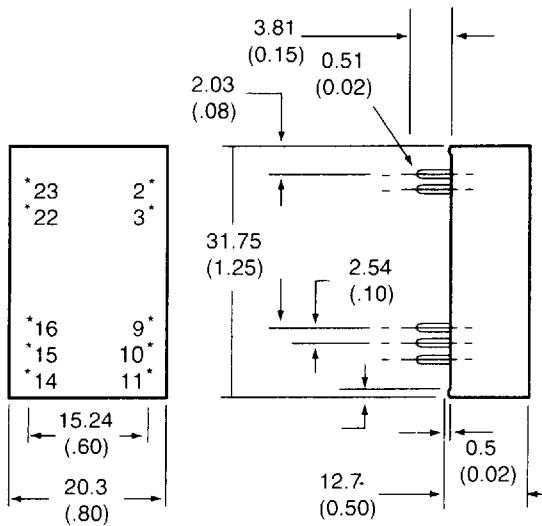
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## 1500 Vrms Isolation

| DUAL OUTPUT VOLTAGE | INPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mA) (Max) | INPUT CURRENT (mA) |           | MODEL NO.      | CASE | PRICE (1-9 QTY) |
|---------------------|---------------------|----------------------|---------------------------|--------------------|-----------|----------------|------|-----------------|
|                     |                     |                      |                           | NO LOAD            | FULL LOAD |                |      |                 |
| 4.5-6.0             |                     | ±5                   | ±250                      | 75                 | 870       | TWA2.5-5-5-CB  | CB   | \$59.50         |
|                     |                     | ±12                  | ±125                      | 75                 | 1000      | TWA3-5-12-CB   | CB   | \$59.50         |
|                     |                     | ±15                  | ±100                      | 75                 | 970       | TWA3-5-15-CB   | CB   | \$59.50         |
| 9-18                |                     | ±5                   | ±250                      | 25                 | 355       | TWA2.5-12-5-CB | CB   | \$59.50         |
|                     |                     | ±12                  | ±125                      | 25                 | 385       | TWA3-12-12-CB  | CB   | \$59.50         |
|                     |                     | ±15                  | ±100                      | 25                 | 373       | TWA3-12-15-CB  | CB   | \$59.50         |
| 18-36               |                     | ±5                   | ±250                      | 15                 | 188       | TWA2.5-24-5-CB | CB   | \$59.50         |
|                     |                     | ±12                  | ±125                      | 15                 | 202       | TWA3-24-12-CB  | CB   | \$59.50         |
|                     |                     | ±15                  | ±100                      | 15                 | 192       | TWA3-24-15-CB  | CB   | \$59.50         |
| 36-72               |                     | ±5                   | ±250                      | 15                 | 95        | TWA2.5-48-5-CB | CB   | \$59.50         |
|                     |                     | ±12                  | ±125                      | 15                 | 104       | TWA3-48-12-CB  | CB   | \$59.50         |
|                     |                     | ±15                  | ±100                      | 15                 | 96        | TWA3-48-15-CB  | CB   | \$59.50         |

| FUNCTION | SINGLE  | DUAL    |
|----------|---------|---------|
| + INPUT  | 22 & 23 | 22 & 23 |
| - INPUT  | 2 & 3   | 2 & 3   |
| +OUTPUT  | 14      | 14      |
| COMMON   | NC      | 9 & 16  |
| - OUTPUT | 16      | 11      |



### BOTTOM VIEW

**All dimensions are in mm (inches)**



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