

# 949ZW SERIES

## 5 Watt

DC-DC CONVERTER  
2:1 Wide Range Input

### FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 400,000 Hours

### APPLICATIONS

- Local Area Network
- Isolation Devices
- Telecommunications
- Industrial And Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Distributed Power Equipment



### ELECTRICAL SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Input Voltage Range      | 2:1                                      |
| Output voltage Accuracy  | ±2%                                      |
| Load Regulation          | ±1% (Single Output), ±2.5% (Dual Output) |
| Line Regulation          | ±1%                                      |
| Ripple & Noise           | 50mV p-p for 5V, 1% for other voltages   |
| Short Circuit Protection | Fold back                                |
| Overload Protection      | Built-in                                 |

### GENERAL SPECIFICATIONS

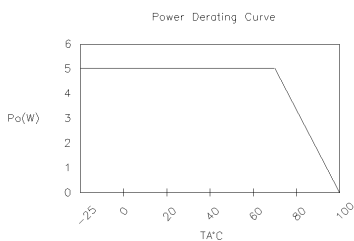
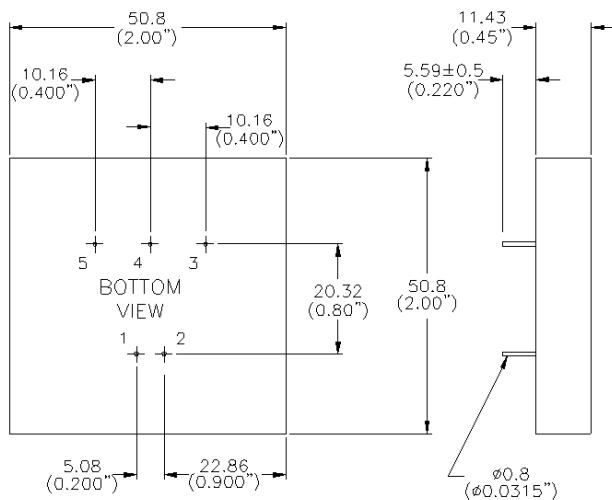
|                           |  |
|---------------------------|--|
| Efficiency (at full load) | 70% typical  |
| Isolation Voltage         | 500VDC   |
| Operating Frequency       | 50KHz min.   |
| Operating Temperature     | -25°C to +70°C                                       |
| Storage Temperature       | -40°C to +100°C                                      |
| Isolation Resistance      | 10 <sup>9</sup> Ohms, min.                           |
| Reflected Ripple Current  | 20mA p-p max.  |
| weight                    | 2.0 Oz. (56 grams)                                   |
| Case Material             | Black coated copper with non-conductive plastic base |

## 949ZW SERIES SPECIFICATIONS

| Model-Type | Input Voltage (Vdc) | Input Current mA (typ) |           | Output Voltage (Vdc) | Output Current mA (max) |
|------------|---------------------|------------------------|-----------|----------------------|-------------------------|
|            |                     | No Load                | Full Load |                      |                         |
| 949ZW0505S | 4.5-6.0 (5)         | 165                    | 1665      | 5                    | 1000                    |
| 949ZW0512S |                     | 155                    | 1550      | 12                   | 400                     |
| 949ZW0515S |                     | 145                    | 1425      | 15                   | 330                     |
| 949ZW0512D |                     | 175                    | 1550      | ±12                  | ±200                    |
| 949ZW0515D |                     | 170                    | 1540      | ±15                  | ±167                    |
| 949ZW1205S | 9-18 (12)           | 50                     | 595       | 5                    | 1000                    |
| 949ZW1212S |                     | 60                     | 590       | 12                   | 400                     |
| 949ZW1215S |                     | 60                     | 600       | 15                   | 333                     |
| 949ZW1212D |                     | 120                    | 615       | ±12                  | ±200                    |
| 949ZW1215D |                     | 80                     | 625       | ±15                  | ±167                    |
| 949ZW2405S | 18-36 (24)          | 35                     | 310       | 5                    | 1000                    |
| 949ZW2412S |                     | 30                     | 290       | 12                   | 400                     |
| 949ZW2415S |                     | 30                     | 290       | 15                   | 333                     |
| 949ZW2412D |                     | 40                     | 310       | ±12                  | ±200                    |
| 949ZW2415D |                     | 40                     | 320       | ±15                  | ±167                    |
| 949ZW4805S | 36-72 (48)          | 15                     | 155       | 5                    | 1000                    |
| 949ZW4812S |                     | 15                     | 150       | 12                   | 400                     |
| 949ZW4815S |                     | 15                     | 150       | 15                   | 333                     |
| 949ZW4812D |                     | 30                     | 160       | ±12                  | ±200                    |
| 949ZW4815D |                     | 35                     | 165       | ±15                  | ±167                    |

S: Single Output

D: Dual Output



### Pin Connections

| Pin | Single   | Dual     |
|-----|----------|----------|
| 1   | + Input  | + Input  |
| 2   | - Input  | - Input  |
| 3   | - Output | - Output |
| 4   | NC       | Common   |
| 5   | + Output | + Output |

