

# 95D – SERIES

## WIDE INPUT VOLTAGE RANGE 20 WATT DC-DC CONVERTER

### FEATURES

- 2:1 wide Input voltage: 18-36V, 36-72V
- 20 WATT (2 x 1.6x 0.5 & 2 x 2 x 0.5 inches) package.
- Efficiency to 80%
- PI input filter



### GENERAL SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Switching frequency         | : 500KHz TYP.                                    |
| Output ripple and noise     | : 100mVp-p (20MHz B.W.)                          |
| Isolation voltage           | : 1500VDC  |
| Isolation resistance        | : 10 <sup>9</sup> ohms                           |
| Storage temperature range   | : -40°C to 100°C                                 |
| Operating temperature range | : -25°C to +71°C                                 |
| Short circuit protection    | : Continuous                                     |
| Case material               | : Black coated metal with<br>Non-conductive base |

### ELECTRICAL SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Input voltage range         | : 24V nominal ...18-36V<br>: 48V nominal ...36-72V |
| Output voltage accuracy     | : ±2%  |
| Line regulation (Full Line) | : ±0.1%  |
| Load regulation (Single)    | : ±1.0%(FL-NL)                                     |
| Load regulation (Dual)      | : ±3%(FN-NL)                                       |
| Efficiency                  | : see table  |
| EMI/RFI                     | : six-sided continuous shield                      |
| Temperature protection      | : when case temp. at 95°C± 5°C<br>Power turn off   |

| Part Number  | Input Voltage Range (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency (%) |
|--------------|---------------------------|----------------------|---------------------|----------------|
| 95D-24S05R2  | 18-36                     | 5                    | 4000                | 81             |
| 95D-24S12R   | 18-36                     | 12                   | 1670                | 83             |
| 95D-24S15R12 | 18-36                     | 15                   | 1330                | 83             |
| 95D-24D12R   | 18-36                     | ±12                  | ±833                | 83             |
| 95D-24D15R2  | 18-36                     | ±15                  | ±666                | 84             |
| 95D-48S05R   | 36-72                     | 5                    | 4000                | 82             |
| 95D-48S12R2  | 36-72                     | 12                   | 1670                | 84             |
| 95D-48S15R   | 36-72                     | 15                   | 1330                | 84             |
| 95D-48D12R2  | 36-72                     | ±12                  | ±833                | 85             |
| 95D-48D15R   | 36-72                     | ±15                  | ±666                | 85             |

### PIN CONNECTION

| PIN | SINGLE  | DUAL    |
|-----|---------|---------|
| 1   | +INPUT  | +INPUT  |
| 2   | -INPUT  | -INPUT  |
| 3   | NO PIN  | NO PIN  |
| 4   | Ctrl    | Ctrl    |
| 5   | NO PIN  | +OUTPUT |
| 6   | +OUTPUT | COMMON  |
| 7   | -OUTPUT | -OUTPUT |
| 8   | TRIM    | TRIM    |

\*Ctrl: Remote ON/OFF Control

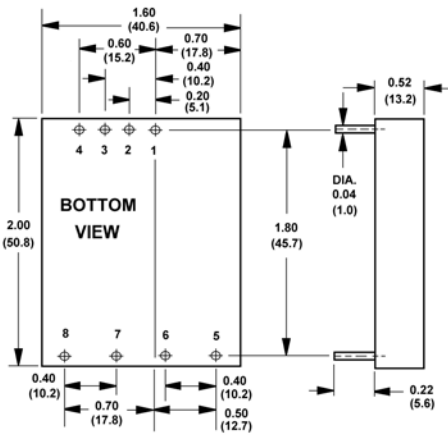
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### MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are  $\pm 0.05/\pm 0.13$

1



ALL DIMENSIONS IN INCHES(mm)

2

