

OBSOLETE PRODUCT
Contact factory for replacement model



3 WATT UNREGULATED WIDE INPUT RANGE DC/DC CONVERTER PWR72

FEATURES

- | Low Price
- | High Power Output: 3 Watts
- | Wide Input Voltage Range: 5VDC To 22VDC
- | Isolation Barrier 100% Tested Per UL544, VDE750, and CSA C22.2 Dielectric Withstand
- | Isolation Barrier Leakage Current 100% Tested At 240VAC: 3 μ A Max
- | Low Isolation Barrier Capacitance: 10pF
- | Single-Channel; Dual Output
- | Six-Sided Shielding

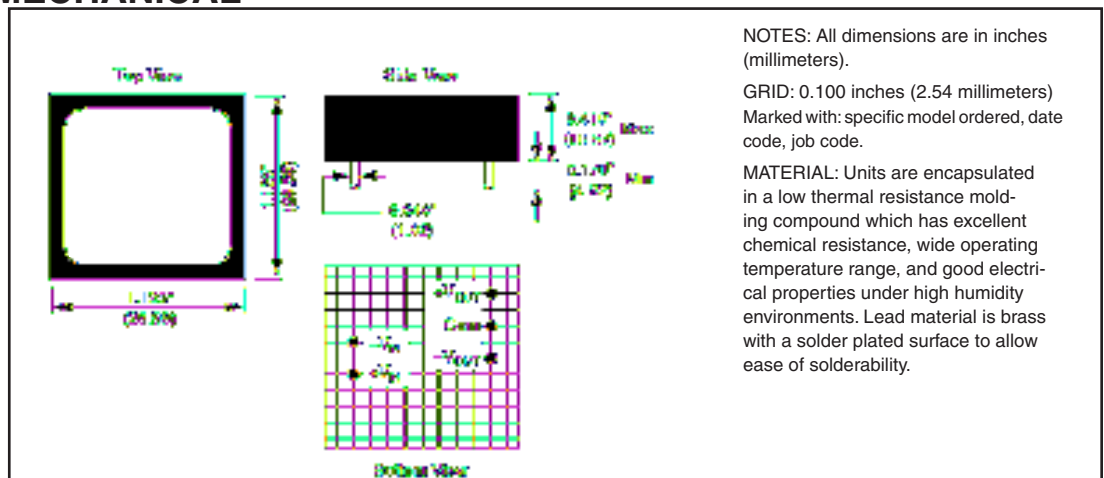
DESCRIPTION

The PWR72 is a 3W, single-channel, dual-output DC/DC converter designed for low cost spot power conversion and ground elimination applications.

It provides a plus and minus output voltage approximately equal to the input voltage magnitude. The PWR72 operates over a wide range of input voltages from 5VDC to 22VDC. Its unregulated outputs give the PWR72 high efficiency power conversion.

Surface-mounted devices and manufacturing processes are used in the PWR72 to give the user a device which is more environmentally rugged than most DC/DC converters. The use of surface-mounted technologies also gives the PWR72 superior isolation voltage. A third advantage of using surface-mounted technologies is low manufacturing cost.

MECHANICAL



ELECTRICAL SPECIFICATIONS

At $T_A = +25^{\circ}\text{C}$, $V_{IN} = 15\text{VDC}$, and $I_{OUT} = \pm 100\text{mA}$ unless otherwise noted.

| PARAMETER | CONDITIONS | MIN | TYP | MAX | UNITS |
|--------------------|--|--------|------|--------|-----------------|
| INPUT | | | | | |
| Rated Voltage | | 5 | 15 | | V _{DC} |
| Voltage Range | | | | 22 | V _{DC} |
| Input Current | $I_{LOAD} = 0$ | | 40 | | mA |
| | $I_{LOAD} = \text{Rated Load}$ | | 280 | | mA |
| Ripple Current | $I_{LOAD} = 0$ | | 15 | | mApk |
| | $I_{LOAD} = \text{Rated Load}$ | | 150 | | mAp-p |
| ISOLATION | | | | | |
| Rated Voltage | | 1000 | | | V _{DC} |
| Test Voltage | 60s, 60Hz | 3000 | | | Vpk |
| Resistance | | | 10 | | GW |
| Capacitance | | | 10 | | pF |
| Leakage Current | $V_{ISO} = 240\text{VAC}$, 60Hz | | | 3 | μA |
| OUTPUT | | | | | |
| Rated Voltage | | | ±15 | | V _{DC} |
| Voltage Range | $I_{OUT} = \text{No Load}$ | ±15 | | ±20 | V _{DC} |
| | $I_{OUT} = \text{Rated Load}$ | ±14.25 | | ±15.75 | V _{DC} |
| Rated Power | | | 3 | | W |
| Rated Current | | | | 100 | mA |
| | | | | 200 | mA |
| Current Range | Total of All Outputs | | | ±150 | mA |
| | Each Output | 0 | | 300 | mA |
| | Total of All Outputs | 0 | | | mA |
| Line Regulation | $10\text{V}_{DC} \sim V_{IN} \sim 18\text{V}_{DC}$ | | 1.15 | | V/V |
| Load Regulation | $0\text{mA} \sim I_{LOAD} \sim 100\text{mA}$ | | 15 | | mV/mA |
| Ripple Voltage | $I_{LOAD} = 0$ | | 30 | | mVpk |
| | $I_{LOAD} = \text{Rated Load}$ | | | 150 | mVpk |
| TEMPERATURE | | | | | |
| Specification | | -25 | | +85 | °C |
| Operating | | -40 | | +100 | °C |

ABSOLUTE MAXIMUM RATINGS

| | |
|--|-------------------|
| Input Voltage..... | 22V _{DC} |
| Output Short-Circuit Duration..... | Xs |
| Internal Power Dissipation..... | 3W |
| Junction Temperature..... | +175°C |
| Package Thermal Resistance..... | 13°C/W |
| Lead Temperature (Soldering, 10s)..... | +300°C |

ORDERING INFORMATION

| | |
|---|------------------|
| | PWR 72 /H |
| Device Family _____ | |
| PWR indicates DC/DC converter | |
| Model Number _____ | |
| Reliability Screening _____ | |
| No designator indicates standard manufacturing processing | |



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