

T-57-11

The MK/MW Series is ideally suited for many analog and digital applications in process control, microprocessors, telecommunication and automatic test equipment.



Special Features . . . Electrical Specifications . . .

- MOSFET design
- MTBF in excess of 1,000,000 hours
- Pi input filter
- Efficiency 80% (typ)
- Continuous short circuit protection

The MK/MW is a cost-effective series of DC/DC converters, providing both single and dual outputs. These unregulated converters offer the latest in MOSFET technology. Features include efficiencies to 80%, cool operating case temperatures, and a high level of reliability with an MTBF in excess of 1,000,000 hours**. Additional standard features include an internal Pi filter, 500 Vdc I/O isolation, up to 12 watts of output power, and an operating temperature of -25°C to +71°C with no derating. All of this comes in a package measuring 2.0" x 2.0" x 0.40" high.

Input

Vin - nominal	5 V
Voltage range	± 10%
Input filtering	Pi

Output

Voltage tolerance	± 3% @ nom. input
Ripple and noise	30 mV RMS*
Short circuit protection	Continuous, auto restart
Temperature coefficient	0.02% / 1°C max.

General

Regulation:	
Line	± 1% / % Vin (typ)
Load	See "Load Regulation Chart".
Efficiency	80% (typ)
I/O isolation	500 Vdc
Switching frequency	80 kHz

Environmental . . .

Operating temperature range:
 -25°C to +71°C (no derating)

Storage temperature:
 -40°C to +105°C

Cooling:
 Free air convection

Notes

* Measured with 3.3 µF 25 V tantalum capacitor across each output.

** MTBF is calculated per MIL-HDBK-217D at +25°C and ground benign.

All specifications are typical at nominal line and full load at +25°C unless otherwise noted.

Specifications subject to change without notice.

DC/DC
 Converters
 3.9 to 12 Watts
 MK/MW Series



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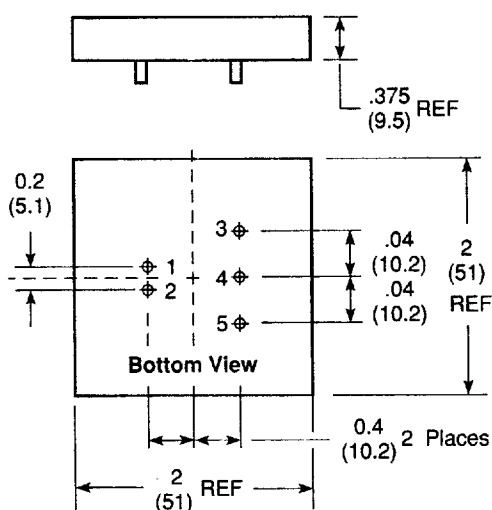
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Ordering Information

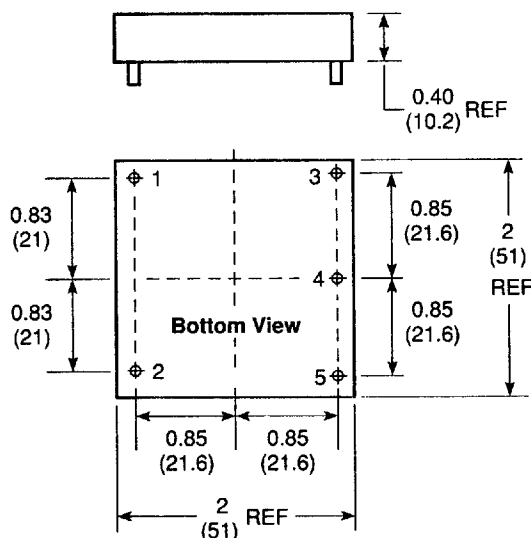
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Drawings

Case 1



Case 2



Pin Assignments

Single Output

Pin 1	+Vdc in
Pin 2	-Vdc in
Pin 3	+Vdc out
Pin 4	Do not connect.
Pin 5	-Vdc out

Dual Output

Pin 1	+Vdc in
Pin 2	-Vdc in
Pin 3	+Vdc out
Pin 4	Common out
Pin 5	-Vdc out

Notes:

1. All dimensions are in inches and (mm).
2. Pins 0.040 (1.0) dia. x 0.20 (5.1) Lg Min.

Load Regulation Chart

LOAD CURVE (TYP)

