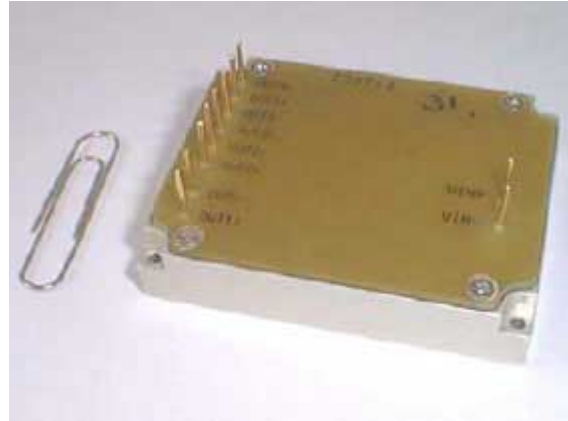


M797 SERIES

MINIATURE, HIGH DENSITY
QUAD OUTPUT
DC/DC CONVERTERS
(UP TO 20W)

APPLICATIONS

Military, Ruggedized, Telecom, Industrial



SPECIAL FEATURES

- Miniature size
- High efficiency
- Wide input range
- Input / Output isolation
- Fixed switching frequency (250KHz)
- EMI/RFI filters included
- Indefinite short circuit protection with auto-recovery
- Input over-voltage shutdown with auto-recovery
- Over temperature shutdown with auto-recovery

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D

Temperature:

Operating -55°C to +85°C (baseplate)

Storage -55°C to +125°C

RELIABILITY

150'000 hours, calculated per
MIL-STD-217F at +85°C baseplate,
ground fixed.

*Specifications are subject to change without
prior notice by the manufacturer.

ELECTRICAL SPECIFICATIONS

DC INPUT

DC input range: 16 to 45 VDC

Input transient protection:

All models meet or exceed (no damage)
MIL-STD-1275 (100V for 50mSec) and
MIL-STD-704A, MIL-STD-704D (80V for 0.1Sec)

Overvoltage shutdown with auto-recovery

Efficiency: 75%, Typical (up to 85%)

EMI/RFI:

Meets MIL-STD-461C - CE01, CE03, CS01, CS02

Isolation:

100V between Input and Outputs

100V between Input and Case

DC OUTPUT (floating)

Line /load regulation:

Less than 2% (no load to full load, -55°C to +85°C)

Ripple and noise: 50mVp-p, typical (max. 1%)

Current limiting:

Continuous protection for unlimited time.

Over voltage protection:

Passive transzorb on output.

Over temperature protection:

Automatic Thermal Shutdown with
automatic recovery for each output.

Isolation:

100V between Output and Input

100V between Output and Case

SELECTION GUIDE

Model	Input	Output #1	Output #2	Output #3	OUTPUT #4
M797-01	16 to 45 VDC	3.3V / 0.8A	3.3V / 0.8A	12V / 0.35A	12V / 0.35A
M797-02	16 to 45 VDC	3.3V / 0.8A	3.3V / 0.8A	15V / 0.26A	15V / 0.26A
M797-03	16 to 45 VDC	5V / 0.8A	5V / 0.8A	12V / 0.35A	12V / 0.35A
M797-04	16 to 45 VDC	5V / 0.8A	5V / 0.8A	15V / 0.26A	15V / 0.26A
M797-05	16 to 36 VDC	5V / 0.5A	N.C.	15V / 0.5A	-15V / 0.5A
M797-06	18 to 36 VDC	5V / 0.8A	N.C.	15V / 0.5A	-15V / 0.5A

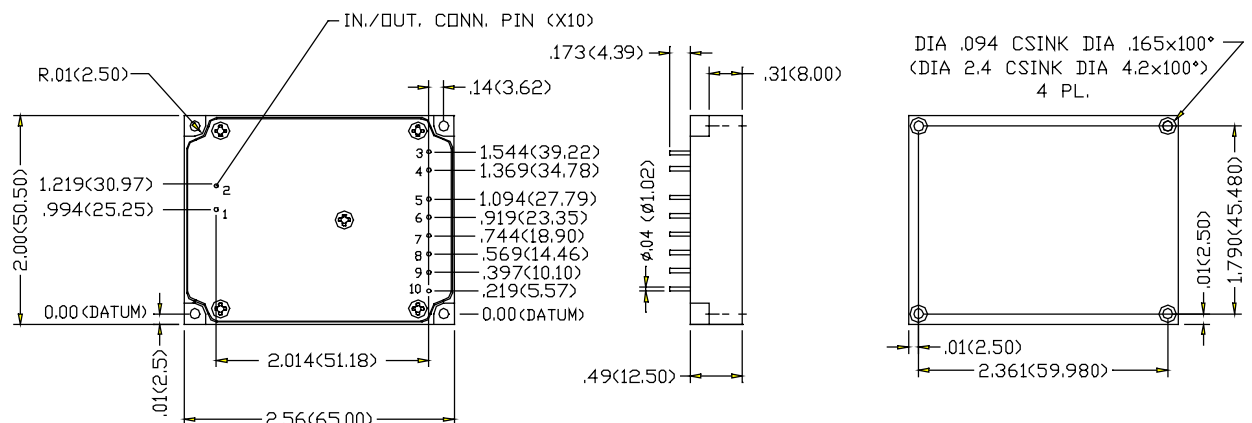
PIN ASSIGNMENT

Pin No.	Pin Function
1	+ VIN
2	VIN RTN
3	+ OUT1 1
4	OUT 1 RTN
5	+ OUT 2

Pin No.	Pin Function
6	OUT 2 RTN
7	+ OUT 3
8	OUT 3 RTN
9	+ OUT 4
10	OUT 4 RTN

MPS can customize this product to your requirements - contact us!

OUTLINE DRAWING



Notes

- Dimensions are in Inches [mm]
- Tolerance is:
.XX ±.02 IN
.XXX ±.01 IN
- Weight: Approx. 2.43 Oz (70gr)

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