

M7879 SERIES

DC/DC POWER SUPPLY



PRODUCT HIGHLIGHTS

- **MINIATURE**
- **HIGH DENSITY**
- **DUAL/SINGLE OUTPUT**
- **UP TO 6W**

M7879 SERIES DC/DC POWER SUPPLY – PCB MOUNT

Applications

Military, Ruggedized, Telecom, Industrial

Special Features

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

Environmental Conditions

Meets or exceeds MIL-STD-810D

Temperature:

Operating -55°C to $+85^{\circ}\text{C}$ (baseplate)

Storage -55°C to $+125^{\circ}\text{C}$

Reliability

150,000 hours, calculated per MIL-STD-217F at $+85^{\circ}\text{C}$ baseplate, ground fixed

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

Electrical Specifications

DC INPUT

Voltage range: 16 to 36 Vdc

Input transient protection:

All models meet or exceed (no damage)

Spikes for 100V per MIL-STD-704A

Over-voltage shutdown with auto-recovery (Shut down above 70 Vdc)

Efficiency: 62%, Typical (up to 85%)

EMC: Designed to meet MIL-STD-461C - CS01, CS02, CE03, RS02 & RS03

MIL-STD-461E - CE102 - optional

Isolation:

100V between Input and Outputs

100V between Input and Case

DC OUTPUT (floating)

Line/Load/Temp regulation:

Less than $\pm 2\%$ (Low line to high line, no load to full load, -55°C to $+85^{\circ}\text{C}$)

Ripple and Noise: 30mV_{p-p}, typical (max. 1%)

Current limiting (Foldback):

Continuous protection for unlimited time

Over-Voltage Protection:

Passive transorb on output.

Over Temperature Protection:

Automatic thermal shutdown with automatic recovery for each output.

Isolation:

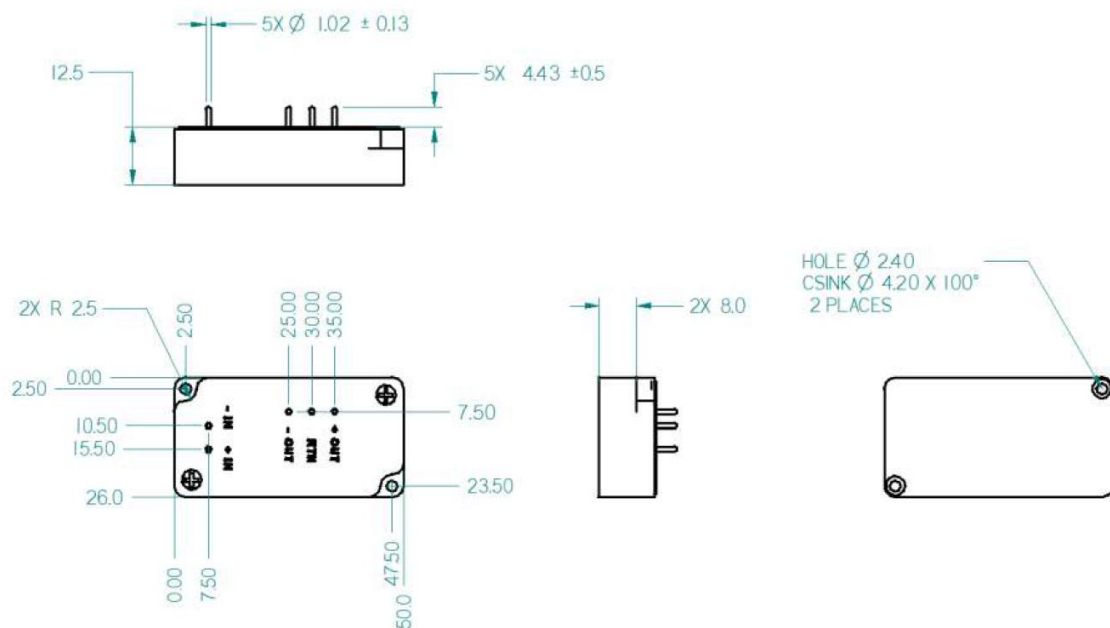
100V between Output and Case

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PIN ASSIGNMENT

Pin No.	Function
1	VIN (+)
2	VIN RTN (-)
3	OUT 1 (+)
4	OUT RTN (-)
5	OUT 2 (+)

OUTLINE DRAWING



Notes

1. Dimensions are in mm
2. Tolerance is:
 .XX \pm 0.2MM
 .XXX \pm 0.1MM
3. Weight: TBD
4. 3D model available

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