

**M7879 SERIES DC/DC POWER SUPPLY – PCB MOUNT**

**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°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

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 ±2% (Low line to high line, no load to  
full load, –55°C to +85°C)

Ripple and Noise: 30mV<sub>p-p</sub>, 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:

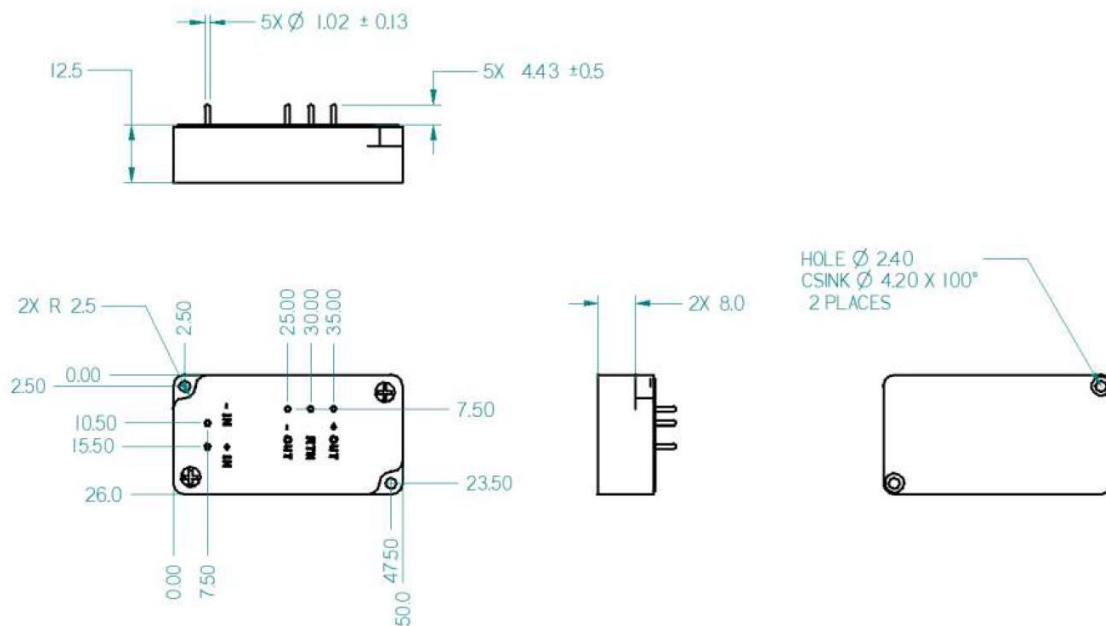
100V between Output and Case

## M7879 SERIES DC/DC POWER SUPPLY – PCB MOUNT

### 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  $\pm 0.2$ MM  
.XXX  $\pm 0.1$ MM
3. Weight: TBD
4. 3D model available

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