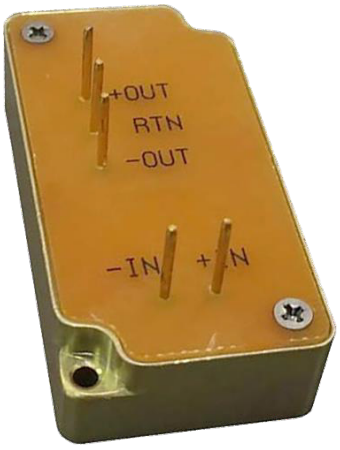
Amphenol
MILITARY HIGH SPEED

M7879 SERIES

DC/DC POWER SUPPLY



PRODUCT HIGHLIGHTS

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

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Amphenol
MILITARY HIGH SPEED

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$_{p-p}$, 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

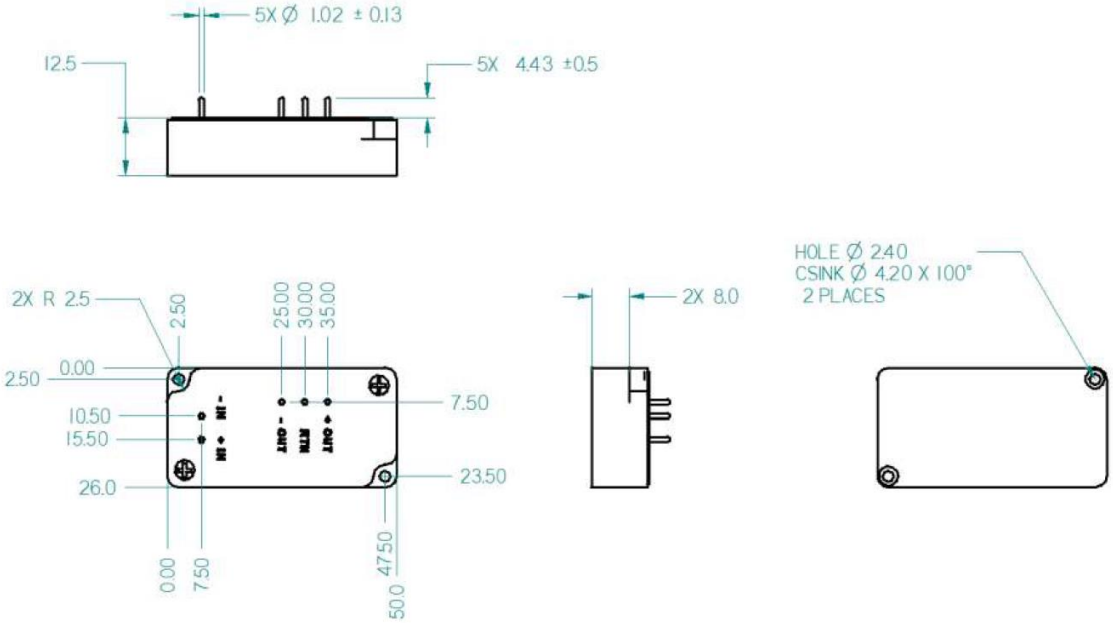
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M7879 SERIES DC/DC POWER SUPPLY – PCB MOUNT

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 ±0.2MM
   .XXX ±0.1MM
3. Weight: TBD
4. 3D model available

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