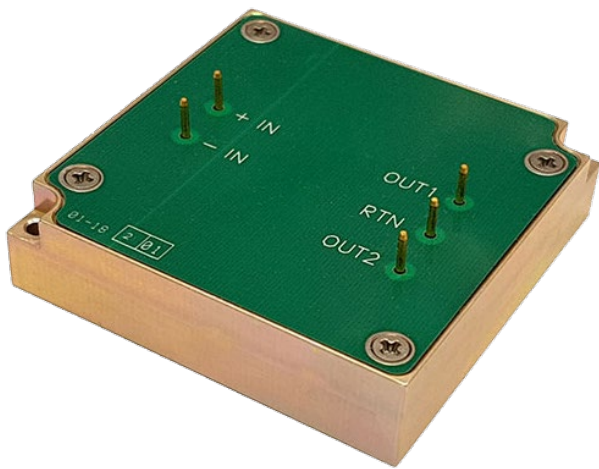


M786 SERIES

DC/DC POWER SUPPLY



PRODUCT HIGHLIGHTS

- MINIATURE
- HIGH DENSITY
- SINGLE/DUAL OUTPUT
- DC/DC POWER SUPPLY
- UP TO 30 W

APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

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

273,000 hours, calculated per

MIL-STD-217F at +85°C baseplate, AUF.

1,200,000 hours, calculated per

MIL-STD-217F at +85°C baseplate, GF.

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

ELECTRICAL SPECIFICATIONS

DC INPUT

DC input range: 16 to 36 VDC

Input transient protection:

All models meet or exceed (no damage)

MIL-STD-1275A (100V for 50mSec) and

MIL-STD-704A, MIL-STD-704D (80V for 0.1Sec)
(for 600V Spike – a serial resistor is required)

Overvoltage shutdown with auto-recovery (optional)

Efficiency: 75%, Typical

EMI/RFI:

Design to meet or exceed

MIL-STD-461C - CS01, CS02, CE03, RS02 &
RS03, MIL-STD-461D - CE102-16

Isolation:

200V between Input and Output

200V 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:

Shutdown at baseplate temperature of +100°C (±5°C)

Automatic recovery at baseplate
temperature lower than +90°C (±5°C)

Isolation:

200V between Output and Input

200V between Output and Case

