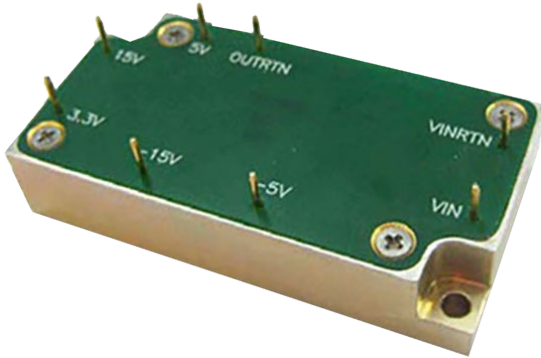


M7155 SERIES

DC/DC POWER SUPPLY



PRODUCT HIGHLIGHTS

- MINIATURE
- HIGH DENSITY
- FIVE OUTPUTS
- DC/DC CONVERTER
- UP TO 30W

APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

- Extremely Miniature size
- High efficiency
- Input / Output isolation
- Fixed switching frequency (620 kHz)
- EMI/RFI filters included
- Indefinite short circuit protection with auto-recovery
- Over-voltage protection -
Passive tranzorbs on outputs
- Over temperature shutdown with auto-recovery

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D

Temperature:

Operating -40C to +85°C (baseplate)

Storage -55C to +125°C

RELIABILITY

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

ELECTRICAL SPECIFICATIONS

DC INPUT

DC Input range: 28±4 VDC

EMI/RFI:

Designed to MIL-STD-461F*: CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103

Efficiency: 75% (Typical)

Isolation:

50V between Input and Output

50V between Input and Case

DC OUTPUT (floating)

Line/Load regulation:

Less than 1% (no load to full load, -40°C to +85°C)

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

Current limiting (either Hiccup or regulator):

Continuous protection for unlimited time

Over voltage protection:

Electronic shutdown with automatic recovery and a passive tranzorb on output.

Over temperature protection:

Shutdown at baseplate temperature of +105°C (±5°C)

Automatic recovery at baseplate temperature

lower than +95°C (±5°C)

Isolation:

50V between Output and Input

50V between Output and Case

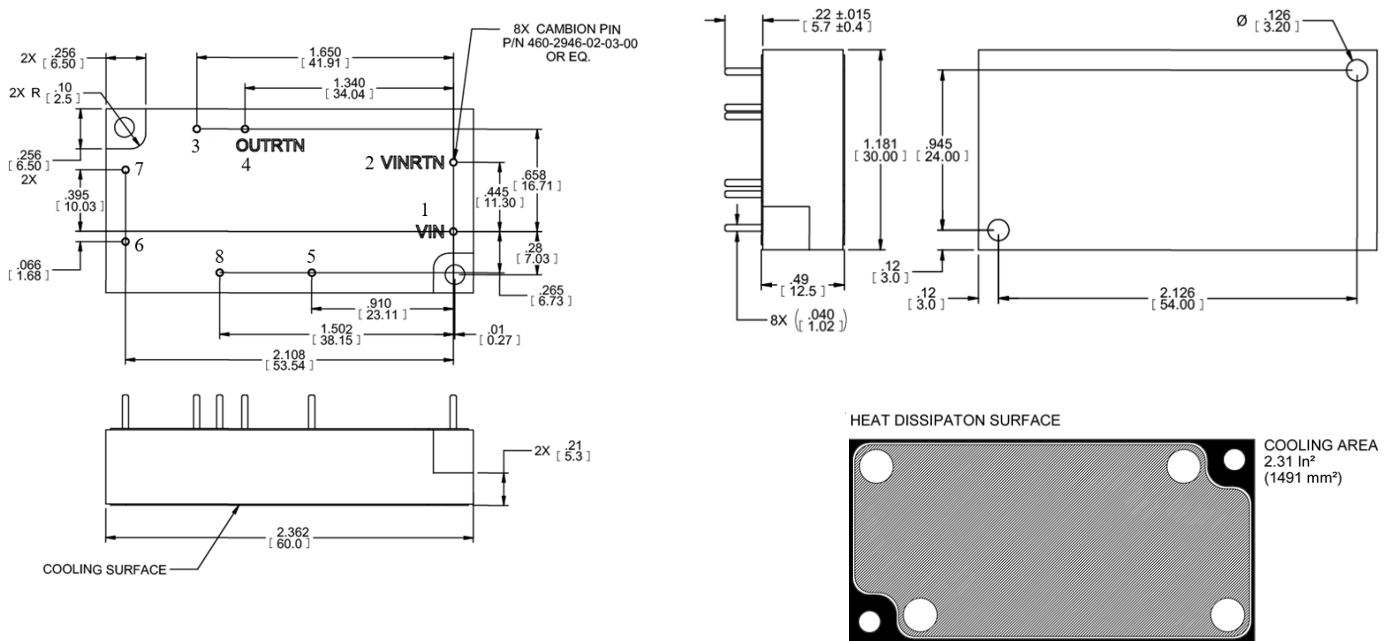
* EMC Compliance achieved with 5µH LISN, shielded harness and static resistive load.

Depending on the actual configuration, an external filter may be required for full compliance

PIN ASSIGNMENT

| Pin No. | Pin Function |
|---------|--------------|
| 1 | VIN |
| 2 | VIN RTN |
| 3 | OUT 1 |
| 4 | OUT RTN |
| 5 | OUT 2 |
| 6 | OUT 3 |
| 7 | OUT 4 |
| 8 | OUT 5 |

OUTLINE DRAWING



Notes

1. Dimensions are in mm
2. Tolerance is:
 .XX ±0.2MM
 .XXX ±0.1MM
3. Weight: 50 +/- 5g.

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