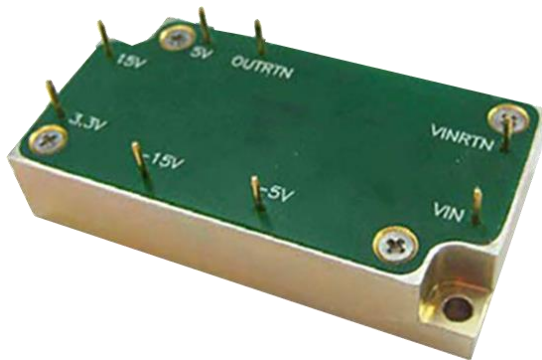


M7155 SERIES

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:

Operatin -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

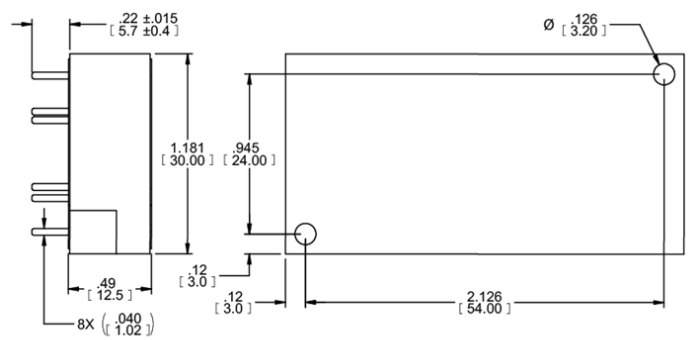
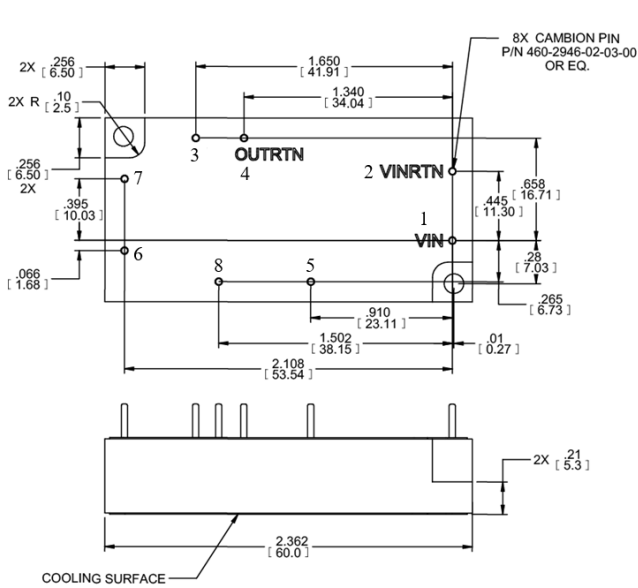
* EMC Compliance achieved with 5µH LISN, shielded harness and static resistive load.

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

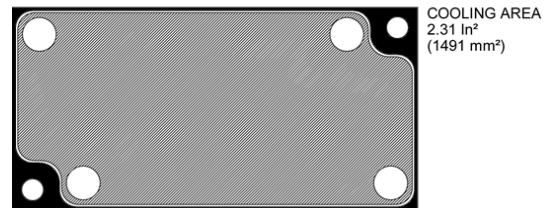
PIN ASSIGNMENT

Pin No.	Pin Function
1	V _{IN}
2	V _{IN} RTN
3	OUT 1
4	OUT RTN
5	OUT 2
6	OUT 3
7	OUT 4
8	OUT 5

OUTLINE DRAWING



HEAT DISSIPATION SURFACE



Notes

1. Dimensions are in mm
2. Tolerance is:
.XX $\pm 0.2\text{MM}$
.XXX $\pm 0.1\text{MM}$
3. Weight: 50 +/- 5g.

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