

M8767 SERIES

**MINIATURE, HIGH DENSITY,
SIX OUTPUTS,
DC/DC CONVERTERS**
(UP TO 80W)



APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

- Miniature size
- High efficiency
- Wide input range
- Up to 80W, higher output available – please contact us.
- Input / Output isolation
- Fixed switching frequency (250 KHz)
- TTL logic enable
- EMI/RFI filters included
- Indefinite short circuit protection with auto-recovery
- Input over-voltage shutdown with auto-recovery
- Over temperature shutdown with auto-recovery

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D

Temperature:

Operating -55°C to $+85^{\circ}\text{C}$ (baseplate)

Storage -55°C to $+125^{\circ}\text{C}$

RELIABILITY

150,000 hours, calculated per MIL-STD-217F at $+85^{\circ}\text{C}$ baseplate, ground fixed.

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

ELECTRICAL SPECIFICATIONS

DC INPUT

DC Input range: 18 to 48 VDC

Input transient protection:

All models meet or exceed (no damage)

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

MIL-STD-704A, MIL-STD-704D (80V for 0.1 Sec)

Over-voltage shutdown with auto-recovery

Efficiency: Up to 80%

Design to meet or exceed MIL-STD-461C

CE03, CE07, CS01, CS02, CS06, RE02, RS02, RS03

Isolation:

200V between Input and Output

200V between Input and Case

DC OUTPUT (floating)

Line/Load regulation:

Less than $\pm 1\%$ (no load to full load, -55°C to $+85^{\circ}\text{C}$)

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

Current limiting (Foldback):

Continuous protection for unlimited time

Over voltage protection:

Passive transistor on output.

Over temperature protection:

Shutdown at baseplate temperature of $+100^{\circ}\text{C}$ ($\pm 5^{\circ}\text{C}$)

Automatic recovery at baseplate temperature

lower than $+90^{\circ}\text{C}$ ($\pm 5^{\circ}\text{C}$)

Isolation:

200V between Output and Input

100V between Output and Case

PIN ASSIGNMENT

| PIN No. | PIN Function |
|---------|--------------|
| 9, 24 | + VIN |
| 8, 23 | VIN RTN |
| 20 | INHIBIT |
| 5 | SYN IN. |
| 19 | SIGNAL RTN |

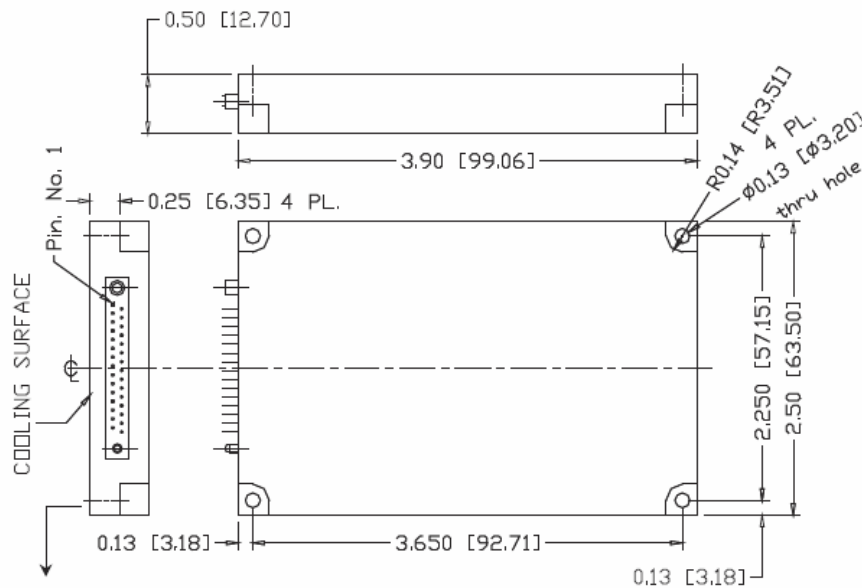
| PIN No. | PIN Function |
|---------|--------------|
| 11, 26 | +OUT 1 |
| 10, 25 | - OUT 1 |
| 13, 28 | + OUT 2 |
| 12, 27 | - OUT 2 |
| 15, 30 | + OUT 3 |

| PIN No. | PIN Function |
|---------|--------------|
| 14, 29 | - OUT 3 |
| 7, 22 | + OUT 4 |
| 6, 21 | - OUT 4 |
| 4 | + OUT 5 |
| 3 | - OUT 5 |

| PIN No. | PIN Function |
|---------|--------------|
| 2, 17 | + OUT 6 |
| 1, 16 | - OUT 6 |

* Note: The SIGNAL RTN is referred to the input.
This is used as grounding for SYNC IN and INHIBIT signals

OUTLINE DRAWING



Connector: AIRBORN RM 272-030-312-2900 or equivalent

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Notes

1. Dimensions are in Inches [mm]
2. Tolerance is:
.XX ±0.01IN
.XXX 0.005 IN
3. Weight: Approx. 4.4 Oz (125 gr)