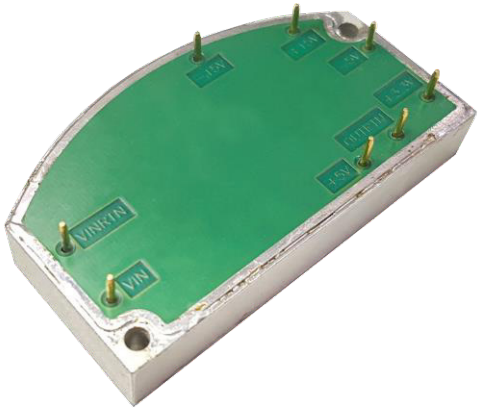
Amphenol
MILITARY HIGH SPEED



# M7159 SERIES

*DC/DC POWER SUPPLY*




## PRODUCT HIGHLIGHTS

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

**John Tucci** • Phone: (607) 563-5388 • Email: jtucci@amphenol-aao.com
• www.amphenol-aerospace.com

Amphenol
MILITARY HIGH SPEED

# M7159 SERIES DC/DC POWER SUPPLY

## APPLICATIONS
Military, Ruggedized, Telecom, Industrial

## SPECIAL FEATURES
- Extremely Miniature size
- High efficiency
- Wide input range
- Input / Output isolation
- Fixed switching frequency (400 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 –40°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.

## ELECTRICAL SPECIFICATIONS

### DC INPUT
DC Input range: 28±4 VDC

EMI, RFI Filters included

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 (Hiccup):
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)

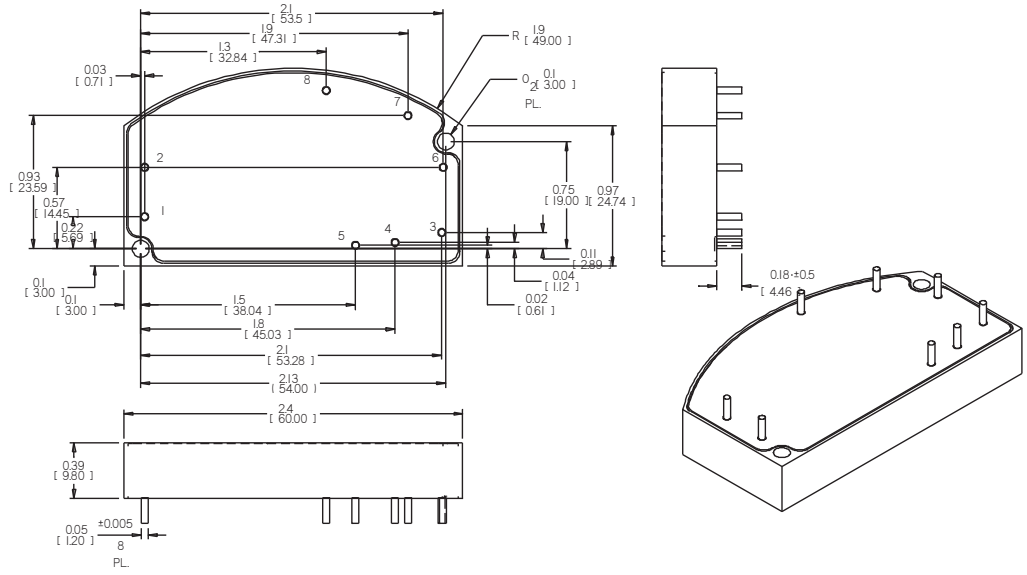
Isolation:
50V between Output and Input
50V between Output and Case

**John Tucci** • Phone: (607) 563-5388 • Email: jtucci@amphenol-aao.com
• www.amphenol-aerospace.com

## 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 Inches [mm]
2. Tolerance is:
   .XX ±.02 IN
   .XXX ±.01 IN
3. Weight: Approx. 35gr (1.2oz)

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

**John Tucci** • Phone: (607) 563-5388 • Email: jtucci@amphenol-aao.com
• www.amphenol-aerospace.com