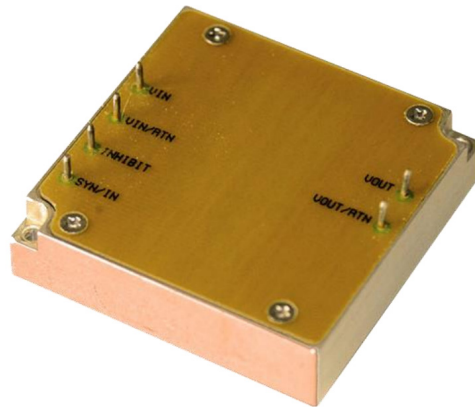


M7119 SERIES

DC/DC POWER SUPPLY



DESCRIPTION

The M7119 PCB mounted military power supply is a rugged single output DC to DC converter which accepts an 18 - 48VDC input voltage range and provides a single DC output from 3.3 to 28VDC at up to 50W. Custom outputs available upon request and the unit is Designed to meet military standards, MIL-STD-704, MIL-STD-1275, MIL-STD-810, MIL-STD-461.

FEATURES

- Extremely Miniature size
- High efficiency
- Wide input range
- Up to 26 W/IN³
- Input / Output isolation
- Fixed switching frequency (250 kHz)
- External synchronization capability
- TTL logic enable
- EMI/RFI filters included
- Indefinite short circuit protection with auto-recovery
- Over-voltage shutdown with autorecovery
- Over temperature shutdown with autorecovery

HOW TO ORDER

Part Number	Total Power	Input	Output
CF-02EM7119-1	40W	18 to 48 VDC	5V @ 8A
CF-02EM7119-2	36W	18 to 48 VDC	12V @ 3A
CF-02EM7119-3	37.5W	18 to 48 VDC	15V @ 2.5A
CF-02EM7119-4	48W	18 to 48 VDC	24V @ 2A
CF-02EM7119-5	39.2W	18 to 48 VDC	28V @ 1.4A
CF-02EM7119-6	38.4W	18 to 48 VDC	28V @ 1.4A

ELECTRICAL SPECIFICATIONS:

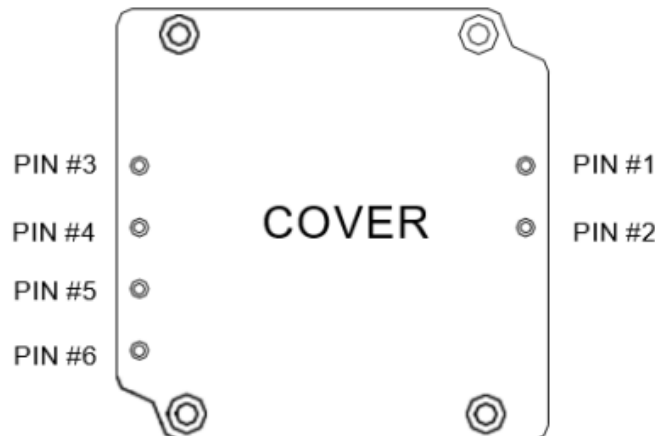
DC INPUT		
Normal voltage range: 18 to 48 VDC	Efficiency: Up to 82%	Isolation: 200V between Input and Output 200V between Input and Case
Designed to meet* MIL-STD-461F: CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103	Input transient protection: All models meet or exceed (no damage) MIL-STD-1275A (100V for 50 mSec) and MIL-STD-704A, MIL-STD-704D (80V for 0.1 Sec)	
DC OUTPUT (floating)		
Line/Load regulation: Less than 1% (no load to full load, -55°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 transorb 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: 200V between Output and Input 100V between Output and Case

PRODUCT SPECIFICATIONS:

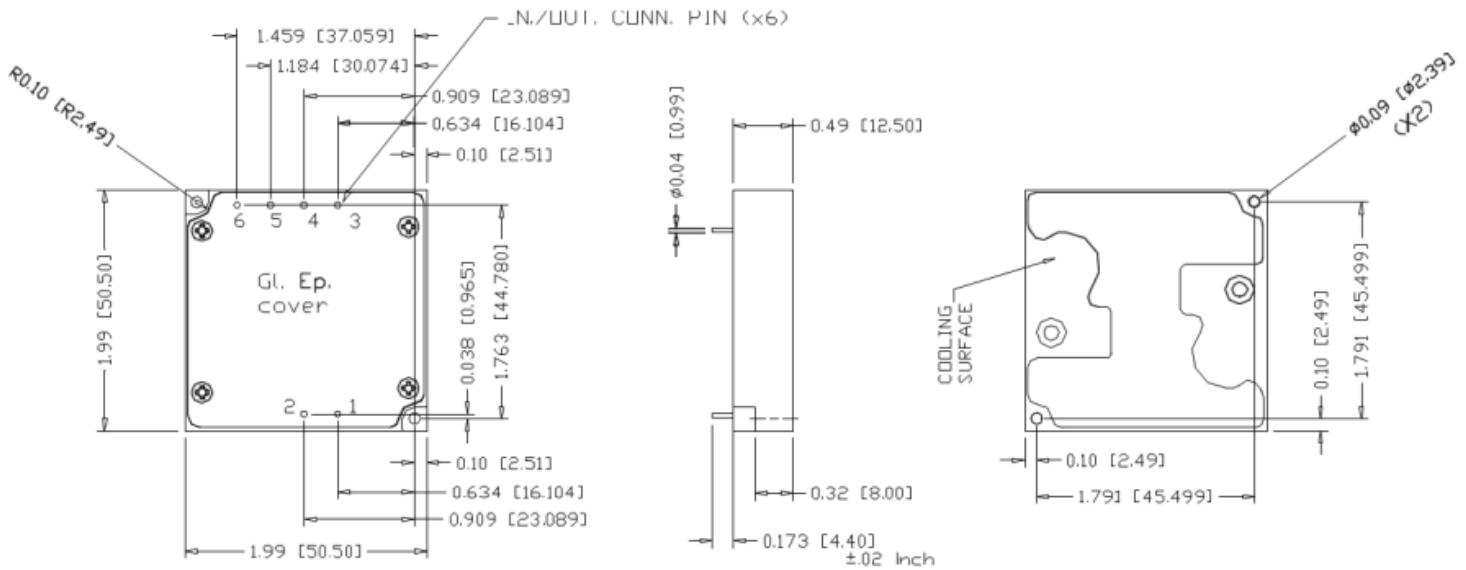
ENVIRONMENTAL CONDITIONS	
Meets or exceeds MIL-STD-810D	Temperature: Operating -55°C to +85°C (baseplate) Storage -55°C to +125°C

PIN ASSIGNMENT:

PIN No.	PIN Function
1	VOUT
2	VOUT RTN
3	VIN
4	VIN RTN
5	INHIBIT
6	SYN IN



OUTLINE DRAWING:



Notes:

1. Dimensions are in mm
2. Tolerance is:
 - .XX ±0.015 MM
 - .XXX ±0.007 MM
3. Weight: Approx. 1.98 oz (56 g)

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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PRELIMINARY

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