Amphenol SOCAPEX

PS SERIES PSMDPCBU36P6-X PCB DC/DC POWER SUPPLY



- DC/DC converter
- Miniature
- High density

Special Features

- Miniature size
- High efficiency
- Wide input range
- Input / Output isolation
- Fixed switching frequency (250 KHz)
- 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 Conditions

Meets or exceeds MIL-STD-810D

Temperature:

Operating –55°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.

‡ EMC compliance achieved when tested with 5 µH LISNs, shielded harness and static resistive load.

- 18 to 48 vdc input
- Dual/single output
- Up to 6W

Electrical Specifications

DC INPUT

DC Input range: 18 to 36 VDC (can operate down to 9V during input transient)

Optional Extended Input: 16 to 48VDC-

please consult factory.

Over-voltage shutdown with auto-recovery

Efficiency: 62%, Typical (up to 85%)

EMI/RFI:

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

Isolation:

100V between Input and Outputs 100V between Input and Case

DC OUTPUT (floating)

Line/Load regulation: Less than 2% (no load to full load, -55°C to +85°C)

Ripple and Noise: 30mVp-p, typical (max. 1%)

Current limiting (Foldback): Continuous protection for unlimited time

Over voltage protection: Passive transorb on output.

100V between Outputs and Input 100V between Output and Case

Markets & Applications

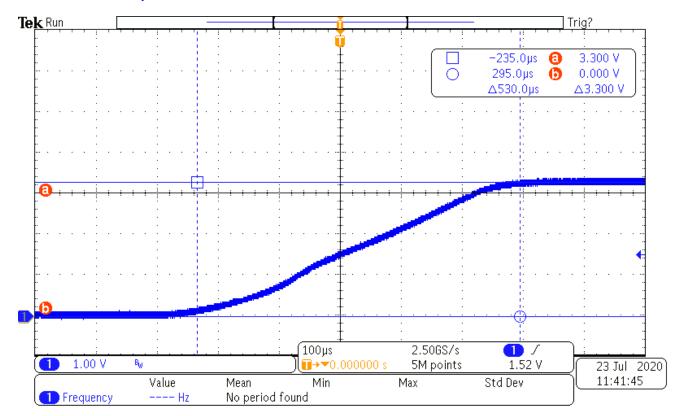




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Test Results

Turn On Time from power on

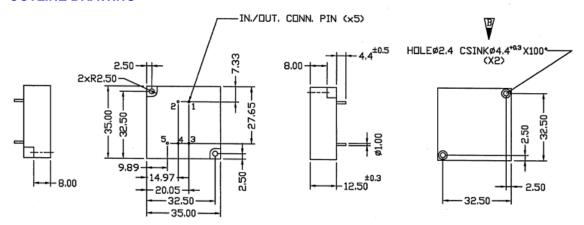


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PIN ASSIGNMENT

PIN No.	PIN Function			
1	+ VIN			
2	VIN RTN			
3	+ OUT 1			
4	OUT RTN			
5	+ OUT 2			

OUTLINE DRAWING



PINDUT

1 - +IN 2 - -IN 3 - +DUT 4 - RTN 5 - DUT

Notes

- Dimensions are in mm Tolerance is:
- .XX ± 0.2 MM
 - .XXX ±0.1MM
- Weight: Approx. 0.88 Oz (25 gr.)

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Standard Configurations

	Input	Output 1		Output 2	
Part Number	Voltage range	Voltage	Current	Voltage	Current
PSMDPCBU36P6-0	18 to 36 V _{DC}	3.3 V _{DC}	0.25 A	3.3 V _{DC}	0.25 A
PSMDPCBU36P6-1	18 to 36 V _{DC}	5 V _{DC}	0.25 A	5 V _{DC}	0.25 A
PSMDPCBU36P6-2	18 to 36 V _{DC}	12 V _{DC}	0.15 A	12 V _{DC}	0.15 A

Note: Specifications are subject to change without prior notice by the manufacturer.





