

DC TO DC CONVERTER

This DC to DC Converter has a large number of applications. It is suitable for any application requiring high power coupled with small size and weight restrictions.

This product has been used as a power source for laptop computers, printers, cell phones, military radios and intercommunication devices. It is an excellent solution for vehicular mounting, suitcase based communication suites, aircraft and mobile solutions.

The DC to DC converter offers high performance and high reliability for industrial and military applications. The DC to DC Converter is extremely efficient (95% DC-DC conversion efficiency) and supports a wide input range of 9 to 36VDC power sources. This solution is an economical alternative to other DC to DC converters



available on the market today. This product was designed for rugged environments and meets applicable MIL-STD requirements.

GENERAL SPECIFICATIONS

Part Number:

0639A43-001

Characteristics:

- Dimensions 4.5”L x 3.5”W x 2.1”H
- Weight: <1.0lbs

Enclosure:

- Aluminum (ADC12 Cast Aluminum)
- Isolated or grounded enclosure

System Component:

- 28 VDC to 12 VDC Converter
- 95% DC-DC Conversion Efficiency

Electrical Inputs:

- 9 to 36VDC
- Surge / Transient protection to 600V
- CA3102E16-9PB-F80 connector

Electrical Outputs:

- 12 VDC +/- .5% @ 20Amps (Optional output of 7 to 28 VDC available assuming input voltage greater than output voltage)
- Continuous short circuit protection

Environmental:

Designed and tested in accordance with requirements of the following specifications:

- Shock: MIL-STD-810 Method 516.5
- Vibration: MIL-STD-810 Method 514.5 (Tracked Vehicle)
- Humidity: MIL-STD-810 Method 507.4
- Salt fog: MIL-STD-810 509.4
- Vehicle power spike, surge and ripple: MIL-STD-1275D
- EMI/RFI: MIL-STD-461
- Electrostatic discharge: MIL-STD 1686C Sections 5.2.2.1 and 5.2.2.6
- Operating Temperature: -40 to +85C
- IPC-67 Waterproof Compliant

Reliability:

- MTBF: 100,000 Hrs

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