

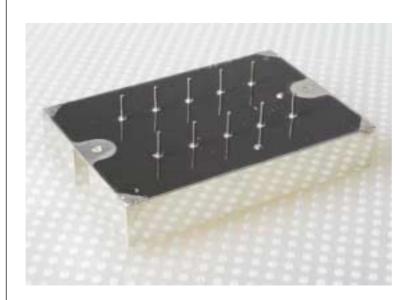
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A subsidiary of Data Device Corporation (DDC)



15 WATT TRIPLE OUTPUT DC TO DC CONVERTER



Planar magnetics
Surface mount design
Ruggedised construction
Encapsulated
Wide temperature range
Low noise
Low profile

The switch mode dc-dc converters provides the electronics designer with a highly specified, cost effective and space efficient solution for airborne, shipboard and ground based application.

These converters accept a wide input voltage range, conforming to standard military 28V dc supplies.

In order to satisfy military requirements the modules have been designed and tested in accordance with stringent NAVMAT guidelines to provide

MODEL	DC INPUT	OUTPUT	OUTPUT	OUTPUT
	VOLTS	(1)	(2)	(3)
1-09364	18-40	5V at 2AMPS	15V at 0.4AMPS	-15V at 0.4AMPS



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Input Voltage Range

18-40 Volts dc.

Input Power Characteristics

MIL STD. 704E, transients as pre Fig 9, including voltage spikes specified in MIL-E6051.

DEF STAN 61-5 Part 6 (A1, A2, B1, B2).

MIL STD 1275A, excluding the single fault condition, survival only.

Isolation: Input to Output Input to Chassis Output to Chassis

>10 Mohms+@500Vdc >10 Mohms+@500Vdc >10 Mohms+@100Vdc

Efficiency

Not less than 75% at full load, 28 volts dc input and at 25 deg C ambient temperature.

Load Line and Temperature Regulation

+/- 2% of output voltage

Minimum Load Condition

5% of maximum current on prime output.

Output Protection

Output is protected against indefinite overload and short circuit. Power limiting circuitry operates at 110%-130% of full rated power. Output voltage recovers automatically when the overload is removed.

O/P PARD

50mV pk-pk

DC -20 MHz

Under Voltage Lockout

To protect internal circuits against low input voltages, the converters will not operate below an input voltage of 15V dc.

EMI

The units are designed to meet the following requirements of MIL STD 461C, Part 2, category A1b:

CE01, CE03, CS01, CS02, CS06, RE02, RS02, RS03.

Operating Temperature

-40 deg C to +80 deg C case temperature

Storage Temperature

-55 deg C to +90 deg C

Dimensions

74 x 51 x 13mm

Weight

100 grms.

MTBF (predicted)

100,000 Hours AIF 50 deg. C

Shock

20g for 30 ms, 40g for 9mS

Start up

<50ms from application of input power

Output inhibit

Output inhibit functions by connecting INHIBIT pin to 28V return