

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

15 WATT TRIPLE OUTPUT DC TO DC CONVERTER

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	>10 Mohms+@500Vdc
Input to Chassis	>10 Mohms+@500Vdc
Output to Chassis	>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