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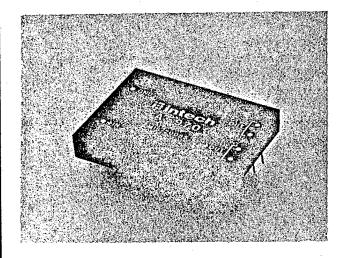
ADVANCED

ANALOG

A-970

HIGH REL DC/DC CONVERTER

OUTLINE & PIN DESIGNATION DIMENSIONS IN INCHES (MILLIMETERS)



FEATURES

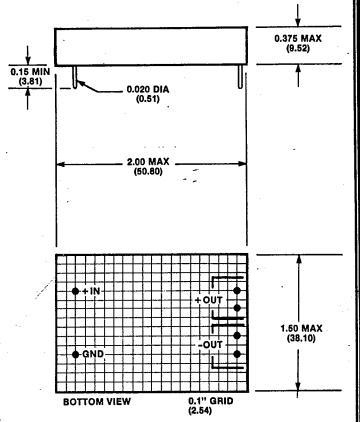
- 12V TO 5V DC CONVERSION
- MIL-SPEC RATED
- HIGH IN/OUT ISOLATION
- OUTPUT CURRENT LIMIT/FOLDBACK PROTECTION

DESCRIPTION

The A-970 is a High Rel, Militarized, 1 watt DC-DC Converter with a 12V DC input and 5V DC output. The converter is manufactured with MIL-SPEC components and is designed to provide reliable performance under adverse environmental conditions.

The output of the unit is regulated to within $\pm 0.15\%$, worst case, combined Line & Load, and has a very low ripple and noise content. The output voltage is within 1% of nominal and has a TEMPCO SPEC of $\pm 0.02\%$ /°C. The converter features current limiting for output protection.

The converter is housed in a $1.5 \times 2 \times 0.375$ inch module and is encapsulated in an alumina-epoxy for environmental protection.



ELECTRICAL SPECIFICATIONS

OUTPUT RATINGS Voltage Current (@ +70°C) Regulation Line Load Temperature Coefficient Ripple/Noise	MIN 4.95 200	NOMINAL 5.00	MAX 5.05 0.05 0.10 0.02 20 2	UNITS V mA % %/°C mV P-P mV rms
INPUT RATINGS Voltage Current No Load Full Load Limiting (foldback) Overvoltage (10mS max)	10.8	12	13.2 40 167 100 . 30	V mA mA MA VDC
GENERAL RATINGS Temperature Specified Operational Storage	-45 -55 -55		+ 70 + 85 + 125	င့်
Isolation (Input to output) Voltage Capacitive Coupling Fuli Load Efficiency -	100 50		300 250	MEGΩ VDC pF %

The information in this data sheet has been carefully checked and is believed to be accurate, however, no responsibility is assumed for possible errors. The specifications are subject to change without notice.

2-8412



2270 MARTIN AVENUE, SANTA CLARA, CALIFORNIA 95050-2781 TELEPHONE (408) 988-4930 TWX 910-338-2213