

intech

ADVANCED ANALOG

A-971

HIGH REL DC/DC CONVERTER

FEATURES

- 28V to 5V DC A 2A
- 0.05% LINE REGULATION
- CURRENT LIMITING
- HIGH IN/OUT ISOLATION
- MIL-SPEC RATED

DESCRIPTION

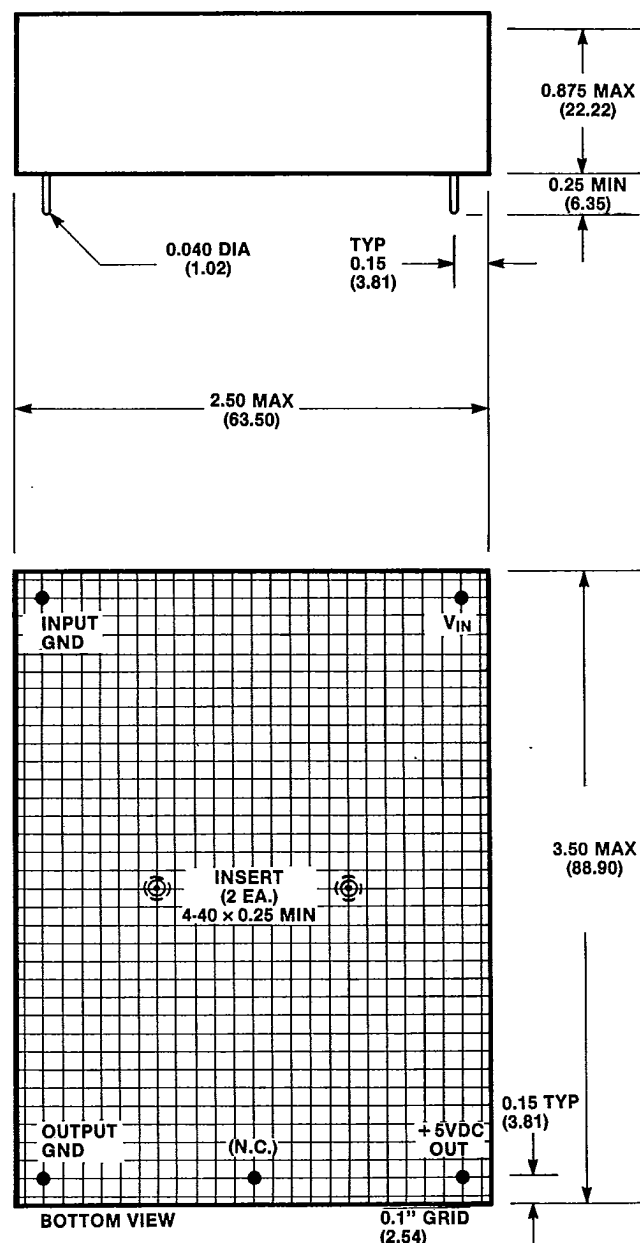
The A-971 is a high rel, militarized, 10 watt DC-DC converter with a 28V DC input and 5V DC output. The converter is manufactured with MIL-SPEC components and is designed to provide reliable performance under adverse environmental conditions.

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 $\pm 0.02\%/^{\circ}\text{C}$. The converter features current limiting for output protection.

The converter is housed in a 2.5 x 3.5 x 0.875 inch module and is encapsulated for environmental protection.

OUTLINE & PIN DESIGNATION

DIMENSIONS IN INCHES (MILLIMETERS)



ELECTRICAL SPECIFICATIONS

OUTPUT RATINGS	MIN	MAX	UNITS
Voltage ($\pm 5V$ NOMINAL)	4.95	5.05	V
Current (@ +70°C)	2000		mA
Regulation Line		0.05	%
Load		0.10	%
Temperature Coefficient		0.02	%/°C
Ripple/Noise		20	mV P-P
		2	mV rms
INPUT RATINGS			
Voltage	25.2	30.8	V
Current No Load		150	mA
Full Load		750	mA
Limiting (Foldback)		2600	mA
GENERAL RATINGS			
Temperature-Specified	-45.5	+71	°C
Storage	-55	+125	°C
Isolation (Input to output)	100		MEGΩ
Voltage		50	VDC
Capacitive Coupling		250	pF
Full Load Efficiency	50		%

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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.

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