

# intech

## ADVANCED ANALOG

### A-972

### HIGH REL DC/DC CONVERTER

#### FEATURES

- DUAL OUTPUTS ( $\pm 12V$ )
- 0.05% REGULATION (LINE/LOAD)
- CURRENT LIMITING
- HIGH IN/OUT ISOLATION
- MIL-SPEC RATED

#### DESCRIPTION

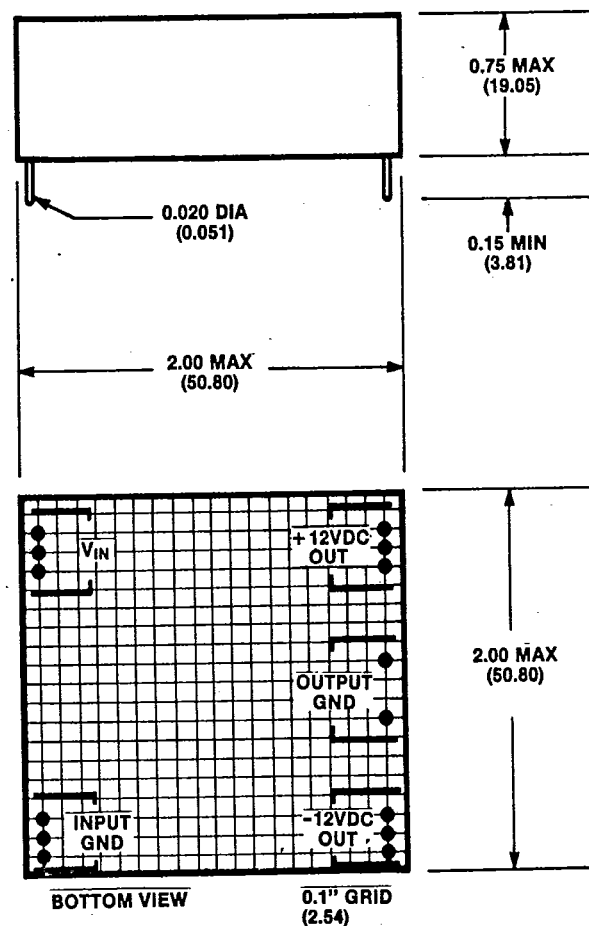
The A-972 is a high rel, militarized, 5 watt DC-DC converter with a 28V DC Input and  $\pm 12V$  DC output. The converter is manufactured with MIL-SPEC components and is designed to provide reliable performance under adverse environmental conditions.

The output of the unit is regulated to within  $\pm 0.10\%$ , 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  $\pm 0.02\%/^{\circ}C$ . The converter features current limiting for output protection.

The converter is housed in a  $2 \times 2 \times 0.75$  inch module and is encapsulated for environmental protection.

#### OUTLINE & PIN DESIGNATION

DIMENSIONS IN INCHES (MILLIMETERS)



**ELECTRICAL SPECIFICATIONS**

OUTPUT RATINGS		MIN	MAX	UNITS
Voltage ( $\pm 12V$ NOMINAL)		$\pm 11.88$	$\pm 12.12$	V
Current (@ $+70^{\circ}C$ )		$\pm 210$		mA
Regulation	Line		0.05	%
	Load		0.05	%
Temperature Coefficient			0.02	%/ $^{\circ}C$
Ripple/Noise			20	mV P-P
			2	mV rms
INPUT RATINGS				
Voltage (28V NOMINAL)		25.2	30.8	V
Current	No Load		75	mA
	Full Load		325	mA
	Limiting		275	mA
GENERAL RATINGS				
Temperature Specified		$-45.5$	$+71$	$^{\circ}C$
	Storage	$-55$	$+125$	$^{\circ}C$
Isolation				
(Input to output)		100		MEG $\Omega$
Voltage			50	VDC
Capacitive Coupling			250	pF
Full Load Efficiency		55		%

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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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