

# 9000A Sensor General Purpose

## SPECIFICATIONS

### DYNAMIC

Sensitivity, $\pm 5\%$ , 25°C	-----	100 mV/g
Acceleration Range	-----	50 g peak
Amplitude Nonlinearity	-----	1%
Frequency Response, nominal:		
$\pm 5\%$	-----	1.2 - 5,000 Hz
$\pm 10\%$	-----	0.9 - 8,000 Hz
$\pm 3\text{dB}$	-----	0.4 - 10,000 Hz
Resonance Frequency	-----	28 kHz
Transverse Sensitivity, max	-----	5% of axial
Temperature Response	-----	See graph

### ELECTRICAL

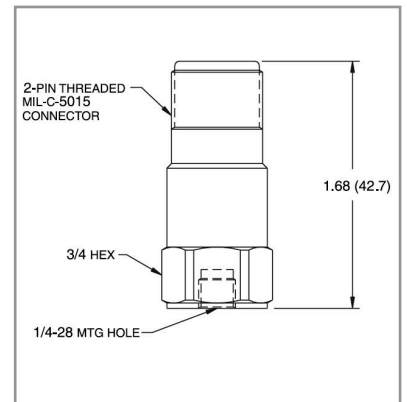
Power Requirement:		
voltage source	-----	18 - 28 VDC
current regulating diode <sup>1,2</sup>	-----	2 - 20 mA
Electrical Noise, equiv. g, nominal		
Broadband 1 Hz to 10 kHz	-----	300 $\mu\text{g}$
Spectral 10 Hz	-----	8 $\mu\text{g}/\text{root Hz}$
100 Hz	-----	3 $\mu\text{g}/\text{root Hz}$
1,000 Hz	-----	2.5 $\mu\text{g}/\text{root Hz}$
Output Impedance, max.	-----	150 Ohms
Bias Output Voltage, nominal:	-----	8 - 12 VDC
Grounding	-----	Case isolated, internally shielded

### ENVIRONMENTAL

Temperature Range	-----	-54 to 121°C
Shock Limit	-----	5,000 g peak

### PHYSICAL

Weight	-----	48.6 grams
Case Material	-----	stainless steel
Mounting	-----	1/4 - 28 tapped hole
Output Connector	-----	MIL-C-5015 style, 2-pin
Pin A	-----	Signal, Power
Pin B	-----	Common



## TYPICAL TEMPERATURE RESPONSE

