

High temperature accelerometer

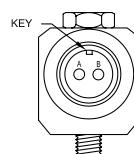
HT787A

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C	100 mV/g		
Acceleration range, VDC > 25 V	80 g peak		
Amplitude nonlinearity	1%		
Frequency response:	$\pm 10\%$ ± 3 dB	1.0 - 5,000 Hz 0.5 - 10,000 Hz	
Resonance frequency, nominal	22 kHz		
Transverse sensitivity, max	5% of axial		
Temperature response:	-25°C +150°C	-10% +15%	
Power requirement:			
Voltage source	18 - 30 VDC		
Current regulating diode	2 - 10 mA		
Electrical noise, equiv. g:			
Broadband	2.5 Hz to 25 kHz	25°C	150°C
Spectral	10 Hz	700 μ g	1,100 μ g
	100 Hz	10 μ g/ $\sqrt{\text{Hz}}$	14 μ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	5 μ g/ $\sqrt{\text{Hz}}$	7 μ g/ $\sqrt{\text{Hz}}$
		5 μ g/ $\sqrt{\text{Hz}}$	7 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω		
Bias output voltage:	+25°C +150°C	13 VDC 12 VDC	
Grounding	case isolated, internally shielded		
Temperature range ¹	-50° to +165°C		
Vibration limit	500 g peak		
Shock limit	5,000 g peak		
Electromagnetic sensitivity, equiv. g, max	70 μ g/gauss		
Sealing	hermetic		
Base strain sensitivity, max	0.0002 g/ μ strain		
Sensing element design	PZT, shear		
Weight	145 grams		
Case material	316L stainless steel		
Mounting	1/4-28 captive screw		
Output connector	2 pin, MIL-5015 style		
Recommended cabling	J9F / J9T2A		

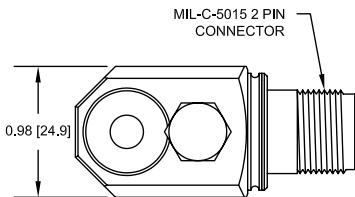
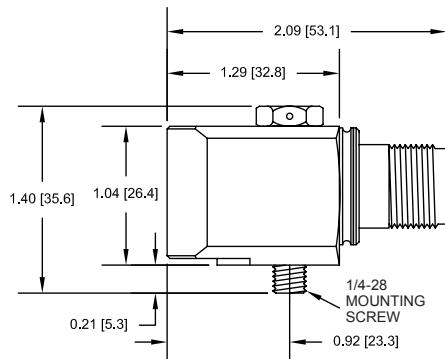
Notes: ¹ Dependent on current supply. BOV, dynamic range and noise may vary.

Accessories supplied: 1/4-28 captive screw (metric mounting available); calibration data (level 2)



Key features

- Operation in environments up to 165°C
- Built with extended range components for long-lasting operation
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.