

# High temperature accelerometer

## HT786A

### SPECIFICATIONS

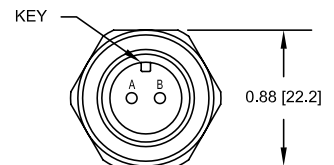
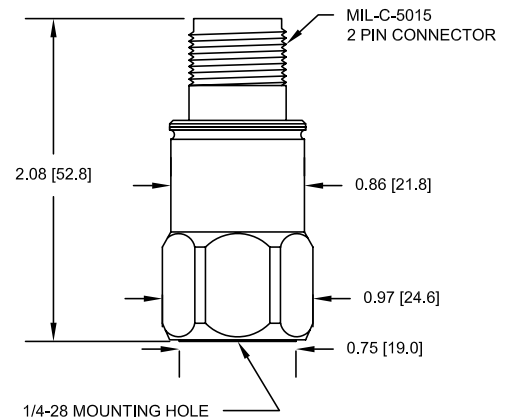
<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		100 mV/g		
<b>Acceleration range, VDC &gt; 25 V</b>		80 g peak		
<b>Amplitude nonlinearity</b>		1%		
<b>Frequency response:</b>	$\pm 5\%$	3 - 5,000 Hz		
	$\pm 10\%$	1 - 9,000 Hz		
	$\pm 3$ dB	0.5 - 14,000 Hz		
<b>Resonance frequency, nominal</b>		30 kHz		
<b>Transverse sensitivity, max</b>		5% of axial		
<b>Temperature response:</b>	-25°C	-10%		
	+150°C	+15%		
<b>Power requirement:</b>				
Voltage source		18 - 30 VDC		
Current regulating diode		2 - 10 mA		
<b>Electrical noise, equiv. g:</b>	<b>25°C</b>		<b>150°C</b>	
	<b>Broadband</b>	<b>2.5 Hz to 25 kHz</b>	700 $\mu$ g	1,100 $\mu$ g
	<b>Spectral</b>	<b>10 Hz</b>	10 $\mu$ g/ $\sqrt{\text{Hz}}$	14 $\mu$ g/ $\sqrt{\text{Hz}}$
		<b>100 Hz</b>	5 $\mu$ g/ $\sqrt{\text{Hz}}$	7 $\mu$ g/ $\sqrt{\text{Hz}}$
		<b>1,000 Hz</b>	5 $\mu$ g/ $\sqrt{\text{Hz}}$	7 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$		
<b>Bias output voltage:</b>	+25°C	13 VDC		
	+150°C	12 VDC		
<b>Grounding</b>		case isolated, internally shielded		
<b>Temperature range</b>		-50° to +150°C		
<b>Vibration limit</b>		500 g peak		
<b>Shock limit</b>		5,000 g peak		
<b>Electromagnetic sensitivity, equiv. g, max</b>		70 $\mu$ g/gauss		
<b>Sealing</b>		hermetic		
<b>Base strain sensitivity, max</b>		0.0002 g/ $\mu$ strain		
<b>Sensing element design</b>		PZT, shear		
<b>Weight</b>		90 grams		
<b>Case material</b>		316L stainless steel		
<b>Mounting</b>		1/4-28 UNF tapped hole		
<b>Output connector</b>		2 pin, MIL-C-5015 style		

Accessories supplied: SF6 mounting stud (metric mounting available); calibration data (level 2)



### Key features

- 150°C operation
- 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.