

High temperature accelerometer

HT786A

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C		100 mV/g
Acceleration range, VDC > 25 V		80 g peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 5\%$	3 - 5,000 Hz
	$\pm 10\%$	1 - 9,000 Hz
	± 3 dB	0.5 - 14,000 Hz
Resonance frequency, nominal		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-25°C	-10%
	+150°C	+15%
Power requirement:		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
Electrical noise, equiv. g:	25°C	
	150°C	
	Broadband 2.5 Hz to 25 kHz	700 μ g
	Spectral 10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
100 Hz	5 μ g/ $\sqrt{\text{Hz}}$	
1,000 Hz	5 μ g/ $\sqrt{\text{Hz}}$	
Output impedance, max	100 Ω	
Bias output voltage:	+25°C	13 VDC
	+150°C	12 VDC
Grounding	case isolated, internally shielded	
Temperature range¹	-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	90 grams	
Case material	316L stainless steel	
Mounting	1/4-28 UNF tapped hole	
Output connector	2 pin, MIL-C-5015 style	

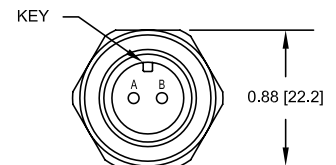
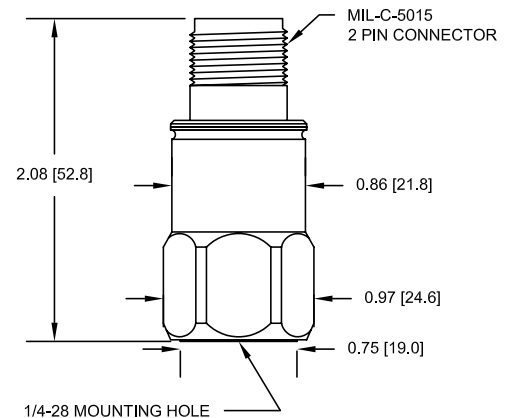
Notes: ¹ Dependent on current supply. BOV, dynamic range and noise may vary.

Accessories supplied: SF6 mounting stud (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.