

High temperature accelerometer

HT786A

SPECIFICATIONS

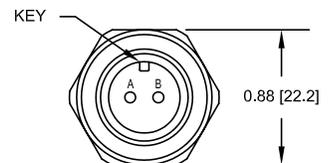
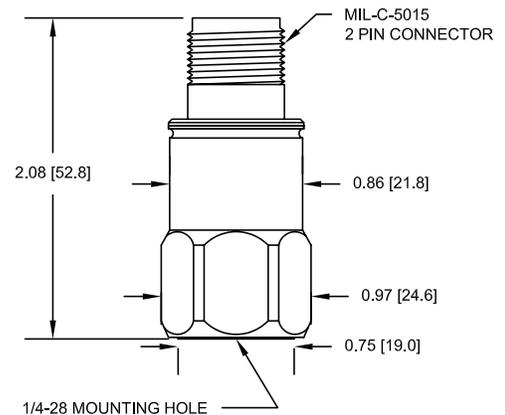
Sensitivity, ±5%, 25°C		100 mV/g		
Acceleration range, VDC > 25 V		80 g peak		
Amplitude nonlinearity		1%		
Frequency response:	±5%	3 - 5,000 Hz		
	±10%	1 - 9,000 Hz		
	±3 dB	0.5 - 14,000 Hz		
Resonance frequency, nominal		30 kHz		
Transverse sensitivity, max		5% of axial		
Temperature response:	-25°C	-10%		
	+150°C	+15%		
Power requirement:				
Voltage source		18 - 30 VDC		
Current regulating diode		2 - 10 mA		
Electrical noise, equiv. g:	Broadband	25°C	150°C	
	2.5 Hz to 25 kHz	700 µg	1,100 µg	
	Spectral	10 Hz	10 µg/√Hz	14 µg/√Hz
	100 Hz	5 µg/√Hz	7 µg/√Hz	
	1,000 Hz	5 µg/√Hz	7 µg/√Hz	
Output impedance, max		100 Ω		
Bias output voltage:	+25°C	13 VDC		
	+150°C	12 VDC		
Grounding		case isolated, internally shielded		
Temperature range		-50° to +150°C		
Vibration limit		500 g peak		
Shock limit		5,000 g peak		
Electromagnetic sensitivity, equiv. g, max		70 µg/gauss		
Sealing		hermetic		
Base strain sensitivity, max		0.0002 g/µstrain		
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		

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.