High temperature accelerometer

HT786A

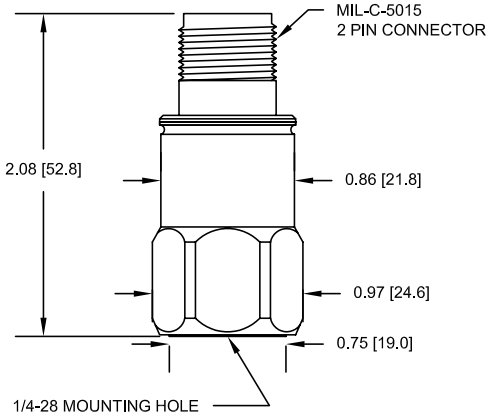
SPECIFICATIONS

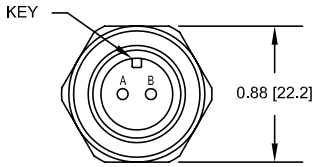
Sensitivity, ±5%, 25°C		100 mV/g	
Acceleration range, VDC > 25 V		80 g peak	
Amplitude nonlinearity		1%	
Frequency response:	**±5%**	3 - 5,000 Hz	
	±10%	1 - 9,000 Hz	
	±3 dB	0.5 - 14,000 Hz	
Resonance frequency, nominal		30 kHz	
Transverse sensitivity, max		5% of axial	
Temperature response:	**–25°C**	–10%	
	+150°C	+15%	
Power requirement:			
Voltage source		18 - 30 VDC	
Current regulating diode		2 - 10 mA	
Electrical noise, equiv. g:		**25°C**	**150°C**
Broadband	**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

CE

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

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