



g

## HT780A High temperature accelerometer

### 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 °C150 °C
Broadband	2.5 Hz to 25 kHz	700 µg1,100 µg
Spectral	10 Hz	10 µg/√Hz14 µg/√Hz
	100 Hz	5 µg/√Hz7 µg/√Hz
	1,000 Hz	5 µg/√Hz7 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 <sup>1</sup>		-50° to +165 °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		62 grams
Case material		316L stainless steel
Mounting		1/4-28 UNF tapped hole
Output connector		2 pin, MIL-C-5015 style

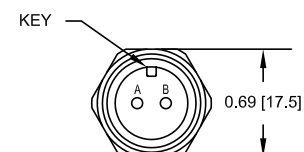
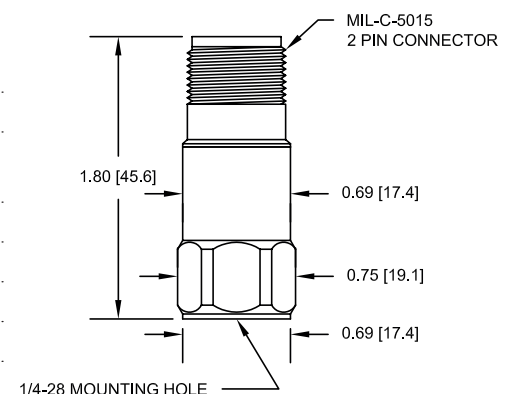
Notes: <sup>1</sup>Dependent on current supply. BOV, dynamic range and noise may vary.  
Accessories supplied: SF6 mounting stud (metric mounting available); calibration data (level 2)

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



### Key features

- Compact, lightweight
- Operation in environments up to 165 °C
- Manufactured in ISO 9001 facility



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

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