High temperature accelerometer

HT780A



Sensitivity, ±5%, 25°C		100 mV/g	
Acceleration range, VDC > 25 V		80 g peak	
Amplitude nonlinearity		1%	
Frequency response:	±5% ±10% ±3 dB	3 - 5,000 Hz 1 - 9,000 Hz 0.5 - 14,000 Hz	Z
Resonance frequency, nominal		30 kHz	
Transverse sensitivity, max		5% of axial	
Temperature response:	−25°C +150°C	–10% +15%	
Power requirement: Voltage source Current regulating diod	е	18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. g: Broadband 2.5 l Spectral	Hz to 25 kHz 10 Hz 100 Hz 1,000 Hz	25°C 700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz	150°C 1,100 μg 14 μg/√Hz 7 μg/√Hz 7 μg/√Hz
Output impedance, max		100 Ω	
Bias output voltage:	+25°C +150°C	13 VDC 12 VDC	
Grounding		case isolated, internally shielded	
Temperature range ¹		–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-50	015 style
N (15) (. 5617		

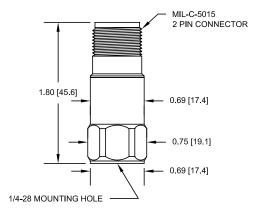
Notes: 1 Dependent on current supply. BOV, dynamic range and noise may vary. Accessories supplied: SF6 mounting stud (metric mounting available); calibration data (level 2)

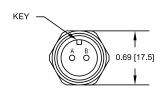




Key features

- · Compact, lightweight
- · Operation in environments up to
- · Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
power/signal	Α
common	В
ground	shell

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



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