General purpose accelerometer with internal temperature sensor



786T



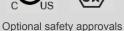
Key features

- Measures both acceleration and temperature
- Rugged design
- Corrosion resistant
- Hermetically sealed
- Case isolated
- ESD-protected
- Reverse wiring protection

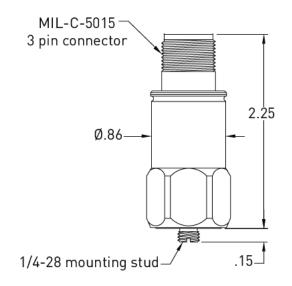
Certifications







Connections	
Function	Connector pin
accel power / signal	Α
accel and sensor common	В
sensor signal	С
ground / case	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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SPECIFICATIONS

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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 - 7,000 Hz 0.5 - 12,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -25° C +120° C Temperature sensor: Output sensitivity	-10% +10% 10 mV/°C
Measurement range	2 to 120° C
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	–50 to +120° 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	3-pin, MIL-C-5015 style
	DCC
Mating connector	R6G

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud (international customers specify mounting requirements)

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