Extremely low-frequency accelerometer

786LF series

SPECIFICATIONS

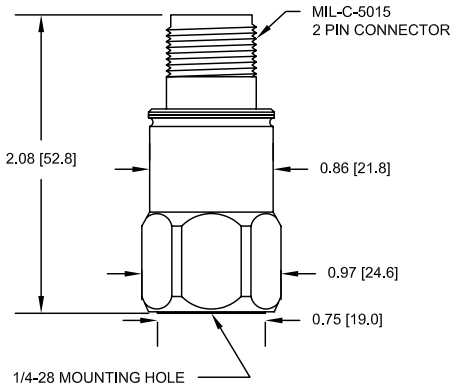
		786LF	786LF-250	786LF-500
Sensitivity, ±5%, 25°C		100 mV/g	250 mV/g	500 mV/g
Acceleration range, VDC > 22 V		50 g peak	20 g peak	10 g peak
Amplitude nonlinearity		1%		
Frequency response:	**±5%**	0.35 - 5,000 Hz		
	±10%	0.25 - 8,000 Hz		
	±3 dB	0.10 - 13,000 Hz		
Resonance frequency, nominal		30 kHz		
Transverse sensitivity, max		5% of axial		
Temperature response:	**–25°C**	–10%		
	+120°C	+15%		
Power requirement:				
Voltage source		18 - 30 VDC		
Current regulating diode		2 - 10 mA		
Electrical noise, equiv. g:				
Broadband	**2.5 Hz to 25 kHz**	400 µg rms	350 µg rms	250 µg rms
Spectral	**10 Hz**	5.0 µg/√Hz	4.0 µg/√Hz	3.0 µg/√Hz
	100 Hz	3.0 µg/√Hz	3.0 µg/√Hz	2.0 µg/√Hz
	1,000 Hz	3.0 µg/√Hz	3.0 µg/√Hz	2.0 µg/√Hz
Output impedance, max		100 Ω	200 Ω	300 Ω
Bias output voltage		13 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		2 pin, MIL-C-5015 style		
Mating connector		R6 type		
Recommended cabling		J10 / J9T2A, <100 ft.		

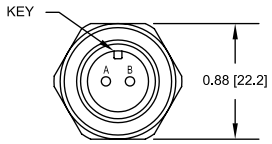
Accessories supplied: SF6 mounting stud (metric mounting available); calibration data (level 2)

CE

Key features

- Available in 100, 250 or 500 mV/g sensitivity
- Extended low frequency response
- 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.

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