

## **Ultra low-frequency accelerometer**

## 786LF-M12 series

		786LF-M12	786LF-250-M12	786LF-500-M12	
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%		<b>-</b>	
	±5% ±10% :3 dB	0.35 - 5,000 0.25 - 8,000 0.10 - 13,000	Hz		
Resonance frequency, nominal		30 kHz			
Transverse sensitivity, max		5% of axial			
	-25°C 20°C	–10% +15%			
Power requirement: Voltage source Current regulating diode		18 - 30 VDC 2 - 10 mA			
1	5 kHz 10 Hz 00 Hz 00 Hz	400 µg rms 5.0 µg/√Hz 3.0 µg/√Hz 3.0 µg/√Hz	350 μg rms 4.0 μg/√Hz 3.0 μg/√Hz 3.0 μg/√Hz	250 μg rms 3.0 μg/√Hz 2.0 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	ting		1/4-28 UNF tapped hole		
Output connector		4 pin, M12 st	4 pin, M12 style		
Mating connector		R6 type			
Recommended cabling		J10 / J9T2A,	<100 ft		



## Key features

- Extended low frequency response
- Available with 100, 250, or 500 mV/g sensitivity
- M12 connector
- Manufactured in ISO 9001 facility





connector key

Connections		
Function	Connector pin	
power/signal	1	
common	2	
N/C	3	
N/C	4	
ground	shell	

Accessories supplied: SF6M-1 mounting stud; calibration data (level 2)

## 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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