



## General Purpose Industrial High Temp Accelerometer

### Features

- 100 mV/g
- Welded Hermetic Seal
- 2-Pin MIL style connector
- Extended to 350°F with thermal isolator

### Applications

- General Industrial
- Motors/Generators
- Pumps
- Gearboxes
- Rollers
- Experimental
- Fans/Cooling Towers
- Bearing Housings
- Compressors

### Operating Specifications

#### Dynamic

Sensitivity @ 100Hz, ±10%	100 mV/g
Frequency Range	5 Hz – 7 kHz
±5%	4 Hz – 10 kHz
±10%	2 Hz – 15 kHz
±3dB	< 0.5 seconds
Turn-on Time	±75 g peak
Amplitude Range	Above 250°F: ±40 g peak
Mounted Resonance (Nom.)	40 kHz
Transverse Sensitivity (Nom.)	5%
Amplitude Linearity	<1%

#### Electrical (@ RM Temp.)

Noise (typical)		
Broadband	2.5 Hz to 20 kHz	350 µg
Spectral	10 Hz	30 µg/√Hz
	100 Hz	8 µg/√Hz
	1000 Hz	3 µg/√Hz
Output Impedance		100 Ω
Grounding		Isolated
Bias Volts		12 - 14 VDC
Power Requirements		24-30 VDC
Current Regulating Diode		1-6 mA cc

#### Environmental

Temperature Range	-40 to 300°F / -40 to 150°C
Base Strain (NOM)	.001 g peak/µstrain
Shock Limit	5000 g peak

#### Physical

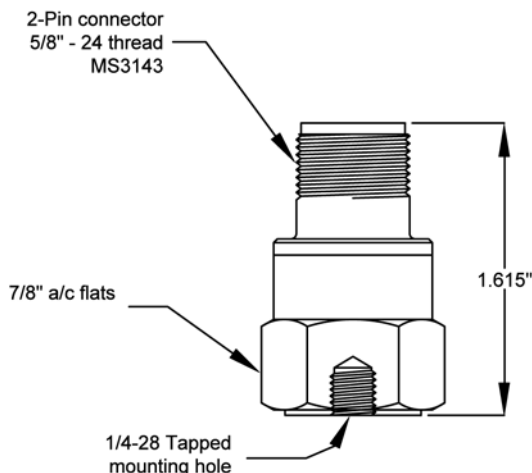
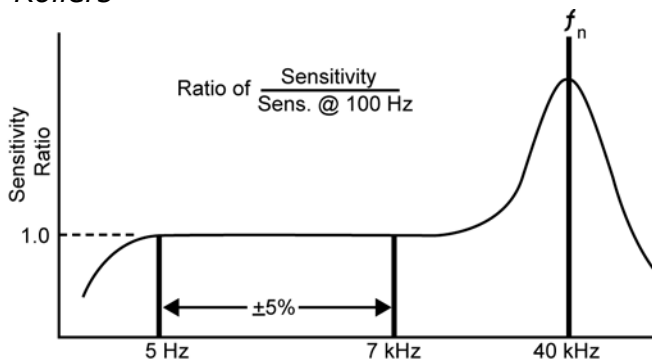
Physical Dimensions	1.515" h x .875" across flats
Weight	68 grams
Case Material	Type 316L stainless steel
Design	Piezoelectric – ring shear
Seal	Welded - Hermetic
Mounting	¼-28 stud
Mounting Torque (Nom.)	35 in - lb.

#### Ordering Information:

Model 6051C .....	9357258
Power Supplies, 2 mA output, BNC/BNC, 24 VDC	
Model P5000 (rechargeable battery) .....	9356559
Model LP24-1B (110 VAC Line Input) .....	9356120
Thermal Isolator .....	9356736-10, -14
Cable, 2-Pin MIL/Pigtail 6' high temperature .....	9354084
Cable, 2-Pin MIL/BNC 6' high temperature .....	9356381
Magnetic holder, 16 lb (for curved/flat surfaces) .....	9356809

#### Sensors include:

NIST Traceable Calibration, ¼-28 Mounting Stud, User Manual and 1-Year Warranty



**For more information about Vibra-Metrics accelerometers, call us today at 609-716-4130, or visit us on-line at [www.vibrametrics.com](http://www.vibrametrics.com)**



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