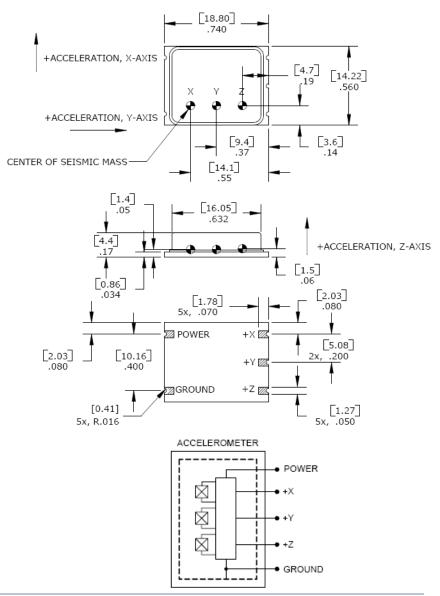
Triaxial Piezoelectric Accelerometer <22µA Current Consumption Wide Bandwidth to 6kHz Circuit Board Mountable

**The Model 834M1** is a low cost, board mountable triaxial accelerometer designed for high amplitude embedded shock applications. The accelerometer features a maximum current consumption of 22 micro-amps and incorporates full power and signal conditioning. The model 834M1 is available in ±2000g to ±6000g ranges and provides a flat frequency response up to greater than 6kHz. The standard model 834 offers the same envelope with a lower maximum current consumption of 4 micro-amps.







## **FEATURES**

- ±2000g to ±6000g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -40° to +125°C Operating Range
- Single Axis Configurations Available

## **APPLICATIONS**

- Asset Monitoring
- Impact Testing
- System Wake-Up Switch
- Embedded Applications
- Instrumentation

# **Model 834M1 Accelerometer**

## performance specifications

All values are typical at +24°C, 100Hz and 3.3Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1001 for Embedded AC Accelerometers.

Parameters <b>DYNAMIC</b> Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±2000 0.62 2-6000 >30000 ±2 <8 10000	±6000 0.20 2-6000 >30000 ±2 <8 10000	Notes ±30% ±2dB
ELECTRICAL Bias Voltage (Vdc) Total Supply Current ( $\mu$ A) <sup>1</sup> Excitation Voltage (Vdc) Output Impedance ( $\Omega$ ) Insulation Resistance (M $\Omega$ ) Broadband Noise ( $\mu$ V) Spectral Noise ( $mg/\sqrt{Hz}$ ) Spectral Noise ( $mg/\sqrt{Hz}$ ) Spectral Noise ( $mg/\sqrt{Hz}$ ) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 60 4.5 0.65 0.25 100% Isolated from Mod	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 30 5.0 1.0 0.50 unting Surface	@100Vdc 2Hz-10kHz @ 10Hz @ 100Hz @ 100Hz
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	-20/+30 from -40° -40 to +125 -40 to +125	°C to +125°C	
PHYSICAL Sensing Element Case Material Weight (grams)	Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 2.6		
<ol> <li><sup>1</sup> A lower current consumption of 4 micro-amps is available on model 834.</li> <li><sup>2</sup> The model 834M1 is not to be reflow soldered at high temperature, manual soldering is recommended. See application note.</li> <li><sup>3</sup> The model 834M1 can be operated with 2.8V excitation but the full-scale range will be limited.</li> </ol>			
		Traceable Amplitude Calibration at 100Hz	
Wiring color code: Se	e schematic		
ordering info			

PART NUMBERING Model Number+Range

834M1-GGGG

\_\_\_\_ Range (2000 is 2000g)

Example: 834M1-2000 Model 834M1, 2000g

#### 联系方式



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