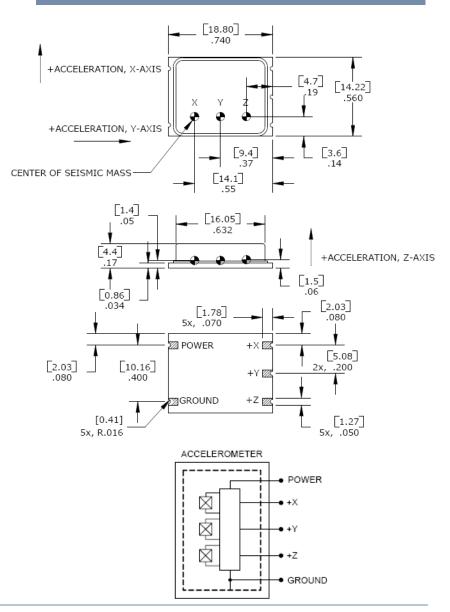


Triaxial Piezoelectric Accelerometer <4µA Current Consumption Full Signal and Power Conditioning Circuit Board Mountable



The Model 834 is a low cost, board mountable triaxial accelerometer designed for high amplitude embedded shock applications. The accelerometer features a maximum current consumption of 4 micro-amps and incorporates full power and signal conditioning. The model 834 is available in ±2000g to ±6000g ranges and provides a flat frequency response up to 2kHz. The model 834M1 provides an extended frequency range to 6kHz.

dimensions



FEATURES

- ±2000g to ±6000g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -20° to +80°C Operating Range
- -40° to +125°C Available on 834M1
- Single Axis Configurations Available

APPLICATIONS

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

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Model 834 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.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) ¹ Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±2000 0.62 2-2000 >30000 ±2 <8 10000	±6000 0.20 2-2000 >30000 ±2 <8 10000	Notes ±30% ±2dB	
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (μ A) Excitation Voltage (Vdc) ³ Output Impedance (Ω) Insulation Resistance ($M\Omega$) Broadband Noise (μ V) Spectral Noise (mg/\sqrt{Hz}) Spectral Noise (mg/\sqrt{Hz}) Spectral Noise (mg/\sqrt{Hz}) Shielding Ground Isolation	Exc Voltage / 2 <4 3.0 to 5.5 <100 >100 110 6.5 1.3 0.8 100% Isolated from Mod	Exc Voltage / 2 <4 3.0 to 5.5 <100 >100 52 7.5 2.5 2.0 unting Surface	@100Vdc 2Hz-10kHz @ 10Hz @ 100Hz @ 1000Hz	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	-10/+20 from -20° -20 to +80 -20 to +80			
PHYSICAL Sensing Element Case Material Weight (grams)		Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 2.6		
 A wider frequency response of 2-6000Hz is available on model 834M1 The model 834 is not to be reflow soldered, manual soldering is recommended. See application note. The model 834 can be operated with 2.8V excitation but the full-scale range will be limited. 				
Calibration supplied:	CS-SENS-0100 NIST	Traceable Amplitude Calibration at 100Hz		

Wiring color code: See schematic

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PART NUMBERING Model Number+Range 深圳杰英特传感仪器有限公司 834-GGGG 深圳市宝安区前进一路安华工业区 1 Range (2000 is 2000g) Example: 834-2000 Model 834, 2000g