



ROHS (E

MODEL 834 ACCELEROMETER

SPECIFICATIONS

- 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 microamps and incorporates full power and signal conditioning.

The **model 834** is available in ± 2000 g to ± 6000 g ranges and provides a flat frequency response up to 2kHz. The model 834M1 provides an extended frequency range to 6kHz.

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

PERFORMANCE SPECIFICATIONS

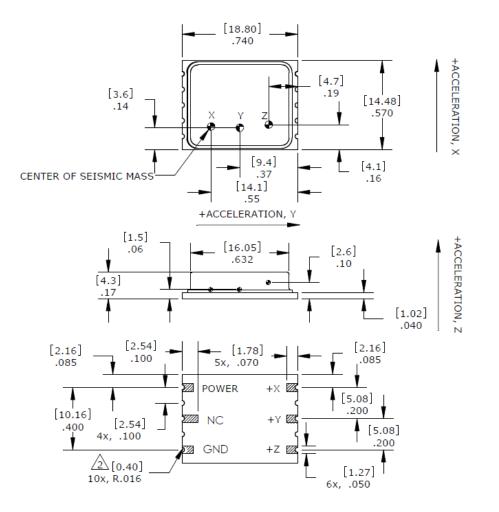
All values are typical at +24°C, 80Hz and 3.3Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters				
	±2000	±6000	Notes	
Range (g) Sensitivity (mV/g)	±2000 0.62	0.20	+30%	
Frequency Response (Hz) ¹	2-2000	2-2000	±2dB	
Natural Frequency (Hz)	>30000	>30000		
Non-Linearity (%FSO)	±2	±2		
Transverse Sensitivity (%)	<8 10000	<8		
Shock Limit (g) Broadband Noise (μV)	140	10000 120	0.1Hz-10kHz	
Spectral Noise (mg/√Hz)	6.5	6.0	@ 10Hz	
Spectral Noise (mg/√Hz)	1.3	2.0	@ 100Hz	
Spectral Noise (mg/√Hz)	0.8	1.5	@ 1000Hz	
ELECTRICAL				
Bias Voltage (Vdc)	Exc Voltage / 2			
Total Supply Current (µA)	<4			
Excitation Voltage (Vdc) ³ Output Impedance (Ω)	3.0 to 5.5 <100			
Insulation Resistance (M Ω)	>50		@100Vdc	
Shielding	100%		0.000000	
Ground Isolation	Isolated from Mou	unting Surface		
ENVIRONMENTAL				
Temperature Response (%)	-10/+20 from -20°C to +80°C			
Operating Temperature (°C)	-20 to +80			
Storage Temperature (°C) Humidity	-20 to +80 Hermetically Solder Sealed			
2	Termetically Solo	Jei Jealeu		
PHYSICAL				
Sensing Element Case Material	Ceramic (shear mode) Ceramic Base, Nickel Silver Cover			
Weight (grams)	2.6			
¹ A wider frequency response of 2-6000Hz is available on model 834M1				
 ² The model 834 is not to be reflow soldered, manual soldering is recommended. See operating manual. ³ The model 834 can be operated with 2.8V excitation but the full-scale range will be limited. See operating manual for details. 				

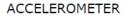
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

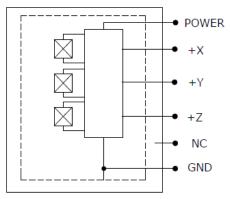
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DIMENSIONS



SCHEMATIC





ORDERING INFORMATION

834	GGGG
Range 2000=2000g 6000=6000g	

Example; 834-6000 Model 834, 6000g range





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