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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MODEL 834M1 ACCELEROMETER



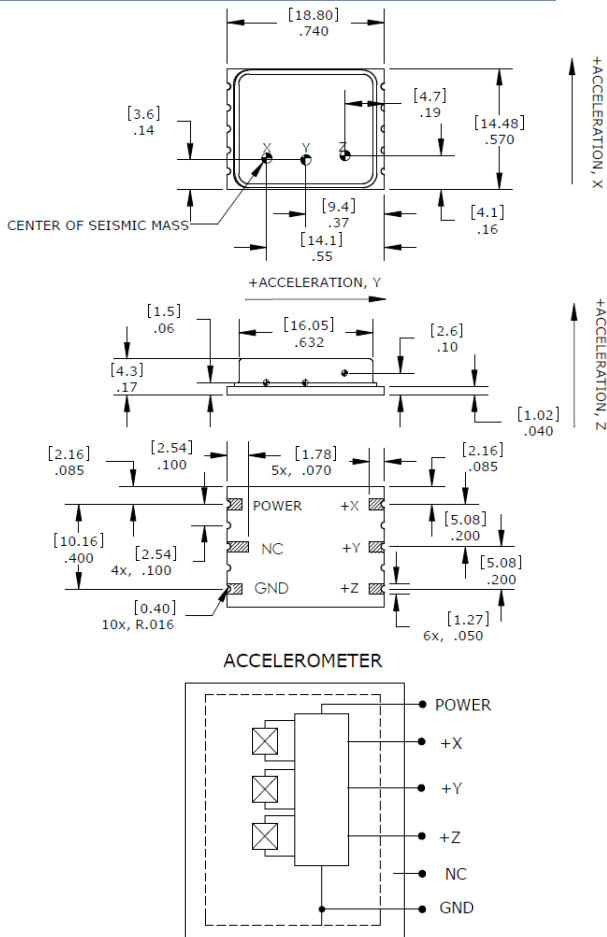
SPECIFICATIONS

- Triaxial Piezoelectric Accelerometer
- <math><22\mu\text{A}</math> 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 $\pm 2000g$ to $\pm 6000g$ 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.

DIMENSIONS



FEATURES

- $\pm 2000g$ to $\pm 6000g$ Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -40° to $+125^\circ\text{C}$ Operating Range
- 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. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters			Notes
DYNAMIC			
Range (g)	±2000	±6000	
Sensitivity (mV/g)	0.62	0.20	±30%
Frequency Response (Hz)	2-6000	2-6000	±2dB
Natural Frequency (Hz)	>30000	>30000	
Non-Linearity (%FSO)	±2	±2	
Transverse Sensitivity (%)	<8	<8	
Shock Limit (g)	10000	10000	
ELECTRICAL			
Bias Voltage (Vdc)	Exc Voltage / 2	Exc Voltage / 2	
Total Supply Current (µA) ¹	<22	<22	
Excitation Voltage (Vdc)	3.3 to 5.5	3.3 to 5.5	
Output Impedance (Ω)	<100	<100	
Insulation Resistance (MΩ)	>100	>100	@100Vdc
Broadband Noise (µV)	40	30	0.1Hz-10kHz
Spectral Noise (mg/√Hz)	3.2	4.0	@ 10Hz
Spectral Noise (mg/√Hz)	0.6	1.0	@ 100Hz
Spectral Noise (mg/√Hz)	0.2	0.5	@ 1000Hz
Shielding	100%		
Ground Isolation	Isolated from Mounting Surface		
ENVIRONMENTAL			
Temperature Response (%)	-20/+30 from -40°C to +125°C		
Operating Temperature (°C)	-40 to +125		
Storage Temperature (°C)	-40 to +125		
Humidity	Hermetically Solder Sealed		
PHYSICAL			
Sensing Element	Ceramic (shear mode)		
Case Material	Ceramic Base, Nickel Silver Cover		
Weight (grams)	2.6		

¹ A lower current consumption of 4 micro-amps is available on model 834.

² The model 834M1 is not to be reflow soldered at high temperature, manual soldering is recommended. See application note.

³ The model 834M1 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 80Hz

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

834M1-GGGG
|
| _____ Range (2000 is 2000g)

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

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