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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







ROHS CE

DIMENSIONS



MODEL 832M1 ACCELEROMETER

SPECIFICATIONS

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

The Model 832M1 is a low cost, board mountable triaxial accelerometer. Featuring stable piezo-ceramic crystals, the accelerometer incorporates full power and signal conditioning with a maximum current consumption of 22 micro-amps. The **model 832M1** is available in $\pm 25g$ to $\pm 500g$ ranges and provides a flat frequency response up to greater than 6kHz. The standard model 832 offers the same envelope with a lower maximum current consumption of 4 micro-amps.

FEATURES

- ±25g to ±500g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -40° to +125°C Operating Range
- Single Axis Configurations Available

APPLICATIONS

- Asset Monitoring
- Data Loggers
- Impact Monitoring
- Machine Health Monitoring
- System Wake-Up Switch
- Embedded Applications

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.

Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz)	±25 50.0 2-6000 >10000 ±2 <10	±50 25.0 2-6000 >10000 ±2	±100 12.5 2-6000 >10000	±200 6.25 2-6000	±500 2.5 2-6000	±30%
Transverse Sensitivity (%) Shock Limit (g)	5000	<10 5000	±2 <10 5000	>10000 ±2 <10 5000	>10000 ±2 <10 5000	TZUD
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (μ A) ¹ Excitation Voltage (Vdc) ³ Output Impedance (Ω) Insulation Resistance (M Ω) Broadband Noise (μ V) Spectral Noise (μ g/ \forall Hz) Spectral Noise (μ g/ \forall Hz) Spectral Noise (μ g/ \forall Hz) Warm-Up Time (msec) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 110 120 40 20 30 100% Isolated from Mod	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 90 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 50 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 40 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 50 600 160 80	@100Vdc 2Hz-10kHz @ 10Hz @ 100Hz @ 1000Hz
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	-20/+30 from -40°C to +125°C -40 to +125 -40 to +125					
PHYSICAL Sensing Element Case Material Weight (grams)	Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 3.0					
¹ A lower current consumption c ² The model 832M1 is not to be ³ The model 822M1 can be app	of 4 micro-amps is a reflow soldered at l	vailable on model 8 nigh temperature, n	332. nanual soldering is	recommended. See	application note.	

³ The model 832M1 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

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

832M1-GGGG

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Range (0200 is 200g)

Example: 832M1-0200 Model 832M1, 200g

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company 1000 Lucas Way Hampton, VA 23666 Sales and Customer Service Tel: +1-800-745-8008 or +1-757-766-1500 Fax: +1-757-766-4297 t&m@meas-spec.com

EUROPE

MEAS France SAS a TE Connectivity Company 26 Rue des Dames F78340 Les Clayes-sous-Bois France Sales and Customer Service Tel: +33 (0) 1 79 33 00 Fax: +33(0)1 34 81 03 59 t&m@meas-spec.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Sales and Customer Service Tel: +86 755 3330 5088 Fax: +86 755 3330 5099 t&m@meas-spec.com

TE.com/sensorsolutions

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