imall

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

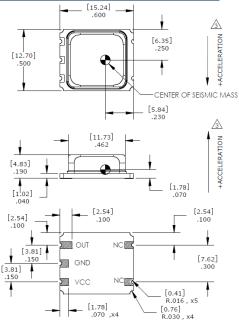




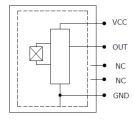


конз (Е

DIMENSIONS



Direction of measurement must be specified at time of order. See Ordering Info on page



MODEL 810M1 ACCELEROMETER

SPECIFICATIONS

- Piezoelectric Linear Accelerometer
- ±25g & ±100g Dynamic Ranges
- Wide Bandwidth to 6000Hz
- Circuit Board Mountable

The **Model 810M1** is a low cost, board mountable accelerometer designed for general purpose vibration measurements. The accelerometer is available in $\pm 25g$ or $\pm 100g$ range and provides a flat frequency response up to >6kHz. Featuring stable piezo-ceramic crystals in shear mode, the accelerometer incorporates an amplified $\pm 1.25V$ output and is offered in two measurement direction options (X or Z axis).

FEATURES

- Two Measurement Directions
- 3.3 to 5.5Vdc Excitation Voltage
- Hermetically Sealed
- Piezo-Ceramic Shear Design
- -40° to +125°C Operating Range

APPLICATIONS

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

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 DYNAMIC Range (g)	±25	±100	Notes	
Sensitivity (mV/g)	50.0 2-6000	12.5 2-6000	±30% ±1dB	
Frequency Response (Hz) Resonant Frequency (Hz)	>30000	>30000	TIOD	
Non-Linearity (%FSO)	±2	±2		
Transverse Sensitivity (%)	_ <u>_</u> <8	<8		
Shock Limit (g)	2000	2000		
Residual Noise (g RMS)	0.0026	0.0032	2Hz to 10kHz	
Spectral Noise, 10Hz (µg√Hz)	160	160		
Spectral Noise, 100Hz (µg√Hz)	40	40		
Spectral Noise, 1kHz (µg√Hz)	16	16		
ELECTRICAL Bias Voltage (Vdc) Full Scale Output Voltage (V) Total Supply Current (μA) Excitation Voltage (Vdc) Output Impedance (Ω) Insulation Resistance (MΩ) Shielding Warm-up Time (msec)	Excitation V ±1.25 22 3.3 to 5.5 <100 >100 100% 30	/oltage / 2	@100Vdc	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-20/+30 fror -40 to +125 -40 to +125 Hermeticall	5		
PHYSICAL Sensing Element Case Material Weight (grams) Mounting				
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz				

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ORDERING INFORMATION

PART NUMBERING Model Number+Range+Measurement Direction

810M1-GGGGX

Measurement Direction (X is X-axis, Z is Z-axis) Range (0025 is 25g)

Example: 810M1-0025X Model 810M1, X-axis Measurement, 25g

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

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.