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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!



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



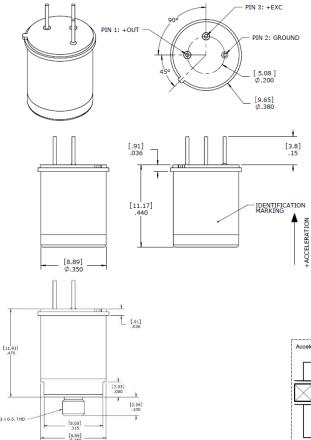








DIMENSIONS



MODEL 805M1 ACCELEROMETER

SPECIFICATIONS

- TO-5 Series Accelerometer
- 3-Wire Voltage Output
- Low-Cost, Embedded Applications
- <0.80mA Power Consumption

The Model 805M1 is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-5 header. It is available in ±20g and ±500g dynamic ranges and offers a flat frequency response to 12kHz. The accelerometer features a hermetic construction in a TO-5 header configuration. The model 805M1 incorporates a stable piezo-ceramic crystal with low power electronics in a 100% shielded housing suitable for many embedded OEM applications.

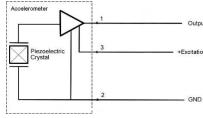
The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

FEATURES

- ±20g and ±500g Range
- Wide bandwidth up to 12kHz
- TO-5 Configuration
- · Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design
- 3.0-5.5 Excitation Voltage

APPLICATIONS

- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution
- Data Loggers



M3 Stud Mounting for -01

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 5Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters						
DYNAMIC						Notes
Range (g)	±20	±50	±100	±200	±500	
Sensitivity (mV/g)	100	40	20	10	4	±10%
Frequency Response (Hz)	1-8000	1-8000	1-8000	1-8000	1-8000	±1dB
Frequency Response (Hz)	0.4-10000	0.4-10000	0.4-12000	0.4-12000	0.4-12000	±3dB
Natural Frequency (Hz)	34000	34000	34000	34000	34000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	5	5	5	5	5	
Shock Limit (g)	5000	5000	5000	5000	5000	
Residual Noise (g RMS)	0.001	0.001	0.003	0.003	0.005	Broadband 1Hz to 10kHz

ELECTRICAL

 $\begin{array}{lll} \text{Bias Voltage (Vdc)} & \text{Exc Voltage / 2} \\ \text{Total Supply Current (mA)} & <0.80 \\ \text{Excitation Voltage (Vdc)}^{\,1} & 3.0 \text{ to } 5.5 \\ \text{Output Impedance } (\Omega) & <100 \\ \text{Insulation Resistance } (M\Omega) & >100 \\ \text{Full Scale Output Voltage (V)} & \pm2 \end{array}$

Grounding Case grounded to mounting surface

ENVIRONMENTAL

Temperature Response (%) ± 10 Operating Temperature (°C) -40 to +100Storage Temperature (°C) -54 to +125

PHYSICAL

Sensing Element Piezo-Ceramic Case Material Stainless Steel

Weight (grams) 5.0

Mounting Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)

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

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@50Vdc

¹ The model 805M1 can be operated with 2.8V excitation but the full-scale range will be limited.

ORDERING INFORMATION

PART NUMBERING	Model Number+Range
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805M1-GGGG-XX

I I_____ Optional Stud Dash Number
I____ Range (0020 is 20g)

Dash Number Stud Options -01 Stud Options M3 x 0.5 6g

Example: 805M1-0020 Model 805M1, 20g

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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