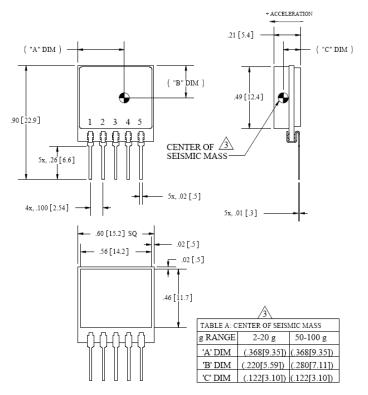






dimensions



MODEL 3052A ACCELEROMETER

SPECIFICATIONS

- Piezoresistive MEMS
- DC Response, Gas Damped
- Circuit Board Mountable
- Integral Temp Compensation

The Model 3052A is a silicon MEMS accelerometer with integral temperature compensation. The accelerometer is packaged on a ceramic substrate with an epoxy sealed ceramic cover and is designed for adhesive mounting. The accelerometer is offered in ranges from ±2g to ±100g range and provides a flat frequency response to minimum 1500Hz. The silicon MEMS sensor is gas damped and incorporates over-range stops for high-g shock protection.

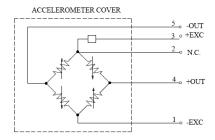
For a similar accelerometer designed for bolt mounting, see the model 3058A

FEATURES

- Adhesive Mounted
- ±1.0% Non-Linearity
- 0 to +50°C Temp Compensation
- Built-in Over-range Stops
- Low Power Consumption

APPLICATIONS

- Vibration & Shock Monitoring
- Motion Control
- Impact & Shock Testing
- Transportation Measurements
- Embedded Applications
- Machinery



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 Panage (a)	±2	±5	±10	±20	±50	±100	Notes
Range (g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO)	8.0-16.0 0-150 700 ±1.0	4.8-7.2 0-250 800 ±1.0	2.4-3.6 0-350 1000 ±1.0	1.2-1.8 0-550 1500 ±1.0	0.48-0.72 0-1000 4000 ±1.0	0.24-0.36 0-1300 6000 ±1.0	@5Vdc Excitation ±5%
Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	<3 0.7 3000	<3 0.7 3000	<3 0.7 3000	<3 0.7 3000	<3 0.6 5000	<3 0.5 5000	<1 Typical
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Input Impedance (Ω) Output Impedance (Ω)	±2 2.7 to 12 1200-6500 1200-6500						Differential
Insulation Resistance (M Ω) Residual Noise (μV RMS) Ground Isolation	>100 10 Isolated from Mounting Surface						@50Vdc Maximum
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C) Humidity	±0.060 ±0.060 -40 to +125 0 to +50 -40 to +125 Epoxy Seal						0 to +50°C 0 to +50°C
PHYSICAL Case Material Weight (grams) Mounting	Ceramic 3.1 Adhesive o	r solder					

¹ Output is ratiometric to excitation voltage

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 100Hz

Optional accessories: 121 Three Channel DC Signal Conditioner Amplifier

140A Auto-Zero Inline Amplifier

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ORDERING INFO

PART NUMBERING Model Number+Range+Electrical Connection

3052A-GGG-P

I I_____Electrical Connection (P=pins) I_____Range (010 is 10g)

Example: 3052A-010-P

Model 3052A, 10g, Pins





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