



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!



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MODEL 3255A ACCELEROMETER

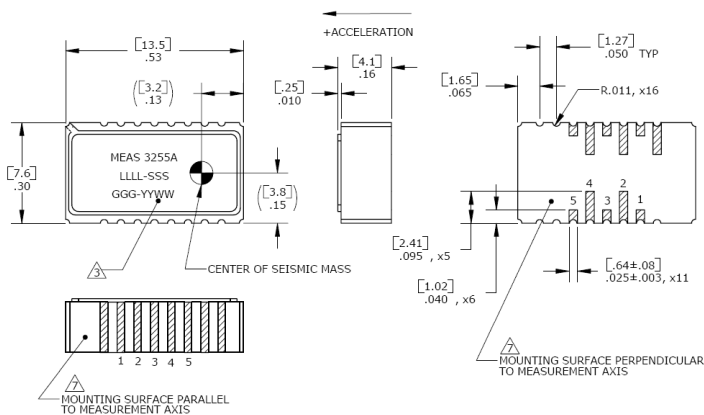


SPECIFICATIONS

- PC Board Mountable Accelerometer
- Amplified Output
- Temperature Compensated
- High Over-Range Protection

The Model 3255A is a signal conditioned board mountable MEMS accelerometer available in $\pm 25g$ to $\pm 500g$ ranges. The package can be mounted in one of two orientations, allowing the measurement axis to be either parallel or perpendicular to the mounting surface without the use of costly brackets. The accelerometer incorporates integral temperature compensation and offers a flat frequency response from DC to 1500Hz.

dimensions

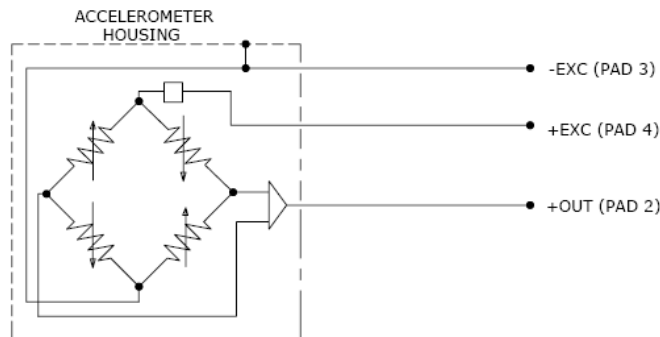


FEATURES

- $\pm 25g$ to $\pm 500g$ Ranges
- Three Axis Mounting Options
- Surface Mount Package
- DC Response, Gas Damping
- Hermetically Sealed
- 5Vdc Excitation

APPLICATIONS

- Impact & Shock Testing
- Vibration & Shock Monitoring
- Embedded Applications
- Transportation Measurements



US Patents 5,103,667; 5,253,510; 5,445,006; 5,503,016; and 5,616,863 apply

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						Notes
DYNAMIC						
Range (g)	±25	±50	±100	±250	±500	
Sensitivity (mV/g) ±10%	80.0	40.0	20.0	8.0	4.0	@5Vdc Excitation ¹
Frequency Response (Hz)	0-800	0-1000	0-1200	0-1500	0-1500	±5%
Natural Frequency (Hz)	4000	4000	6000	8000	10000	
Non-Linearity (%FSO)	±0.5	±0.5	±0.5	±0.5	±0.5	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<1 Typical
Damping Ratio	0.7	0.7	0.7	0.6	0.5	Typical
Shock Limit (g)	5000	5000	5000	5000	5000	
ELECTRICAL						
Zero Acceleration Output (V)	2.5±0.10	2.5±0.10	2.5±0.10	2.5±0.10	2.5±0.10	Single-Ended
Excitation Voltage (Vdc) ¹	2.7 to 5.5	2.7 to 5.5	2.7 to 5.5	2.7 to 5.5	2.7 to 5.5	
Excitation Current (mA)	<5	<5	<5	<5	<5	
Bias Voltage (Vdc)	2.5	2.5	2.5	2.5	2.5	
Full Scale Output Voltage (Vdc)	±2.0	±2.0	±2.0	±2.0	±2.0	
Output Impedance (Ω)	<100	<100	<100	<100	<100	
Insulation Resistance (MΩ)	>100	>100	>100	>100	>100	@100Vdc
Residual Noise (µV RMS)	800	400	400	400	400	Passband
Ground Isolation	Isolated from Mounting Surface					
ENVIRONMENTAL						
Thermal Zero Shift (%FSO/°C)	±0.018	±0.018	±0.018	±0.018	±0.018	
Thermal Sensitivity Shift (%/°C)	±0.021	±0.021	±0.021	±0.021	±0.021	
Operating Temperature (°C)	-54 to +121					
Compensated Temperature (°C)	-20 to +85					
Storage Temperature (°C)	-54 to +121					
PHYSICAL						
Case Material	Ceramic					
Weight (grams)	1.5					
Mounting	Solder					

¹Output is ratiometric with excitation voltage.

²Do not electrically connect undesignated pads in sensor application. Except pad 5 may be tied to pad 4 without affecting performance.

³Maximum ratings without damage:

- Excitation voltage: +5.5Vdc
- ESD protection: 4kV
- Solder reflow temperature: +260°C (10 seconds)

⁴Adhesive underfill suggested for high-g applications.

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

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MODEL 3255A ACCELEROMETER

ORDERING INFO

PART NUMBERING Model Number+Range

3255A-GGG

 |
 | _____ Range (050 is 50 g)

Example: 3255A-050
 Model 3255A, 50g

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