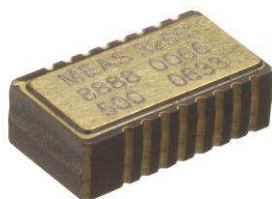
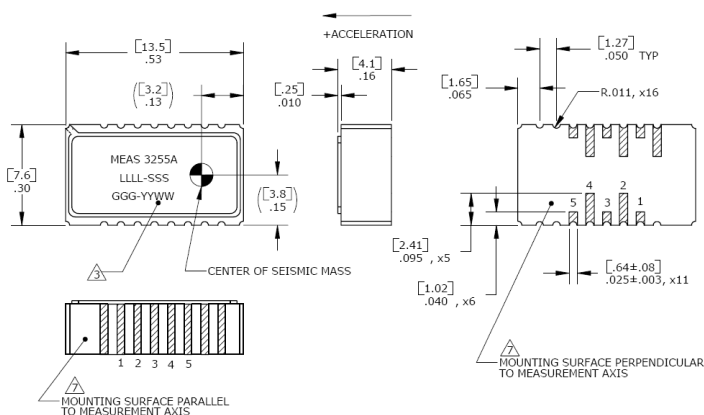


MODEL 3255A ACCELEROMETER



dimensions



SPECIFICATIONS

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

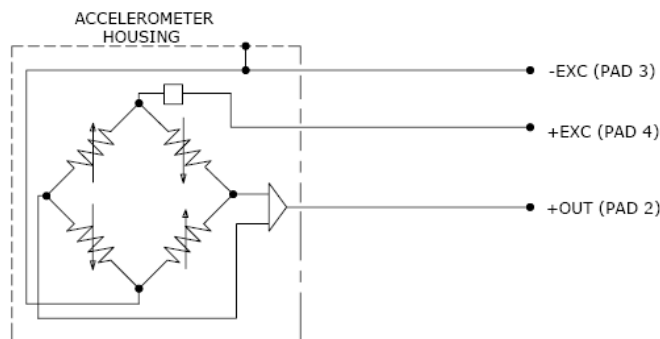
The Model 3255A is a signal conditioned board mountable MEMS accelerometer available in $\pm 25g$ to $\pm 500g$ ranges. The package can be mounted in one of two orientations, allowing the measurement axis to be either parallel or perpendicular to the mounting surface without the use of costly brackets.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

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	@5Vdc Excitation ¹ ±5%
Sensitivity (mV/g) ±10%	80.0	40.0	20.0	8.0	4.0	
Frequency Response (Hz)	0-800	0-1000	0-1200	0-1500	0-1500	
Natural Frequency (Hz)	4000	4000	6000	8000	10000	<1 Typical Typical
Non-Linearity (%FSO)	±0.5	±0.5	±0.5	±0.5	±0.5	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	
Damping Ratio	0.7	0.7	0.7	0.6	0.5	
Shock Limit (g)	5000	5000	5000	5000	5000	
ELECTRICAL						Single-Ended
Zero Acceleration Output (V)	2.5±0.10	2.5±0.10	2.5±0.10	2.5±0.10	2.5±0.10	
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	@100Vdc Passband
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	
Residual Noise (μV RMS)	800	400	400	400	400	
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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ORDERING INFO

PART NUMBERING Model Number+Range

3255A-GGG

|
| _____ Range (050 is 50 g)

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

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
Email: customercare.hmpt@te.com

EUROPE

MEAS France SAS
a TE Connectivity Company
Tel: 800-440-5100
Email : customercare.lcsb@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Sales and Customer Service
Tel: 0400-820-6015
Email: customercare.shzn@te.com

TE.com/sensorsolutions

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331