

# Model EGPE-2A Accelerometer



+260°C PE Accelerometer  
Wide Bandwidth  
Hermetically Sealed  
Through Hole Mount



The Model EGPE-2A is a piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates an annular shear mode crystal that provides stable thermal response up to +260°C. The model EGPE-2A is hermetically sealed and features the popular through hole mount installation for use with standard mounting screws.

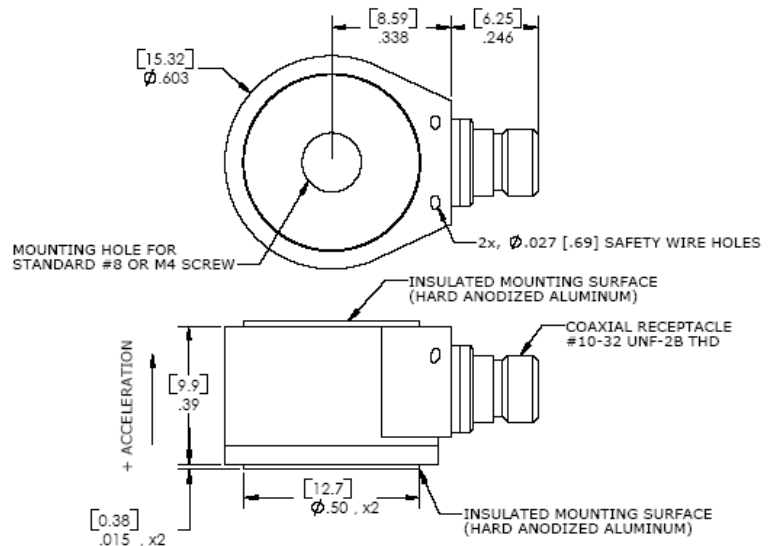
## FEATURES

- ±50g to ±2000g Dynamic Range
- Wide bandwidth up to 15kHz
- Through Hole Mount
- Hermetically Sealed
- Annular Shear Mode
- Isolated Mounting Surface
- Stable Temperature Response

## APPLICATIONS

- Vibration & Shock Monitoring
- High Temperature Applications
- Flight Testing
- Gearbox Vibration Monitoring
- High Frequency Applications

## dimensions



# Model EGPE-2A Accelerometer

## performance specifications

All values are typical at +24°C, 100Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters				Notes
<b>DYNAMIC</b>				
Range (g) <sup>1</sup>	±50	±500	±2000	
Sensitivity (pC/g)	20	13	6.5	
Frequency Response (Hz) <sup>2</sup>	1-5000	1-10000	1-12000	±5%
Frequency Response (Hz) <sup>2</sup>	0.1-10000	0.1-15000	0.1-15000	±1dB
Natural Frequency (Hz)	40000	45000	48000	
Non-Linearity (%FSO)	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	
Shock Limit (g)	5000	5000	5000	
<b>ELECTRICAL</b>				
Capacitance (pF)	1050	1050	1050	Nominal
Insulation Resistance (MΩ)	>100	>100	>100	@50Vdc
Grounding	Case Grounded			
Ground Isolation	Isolated from Mounting Surface			
<b>ENVIRONMENTAL</b>				
Temperature Response (%)	±10	±10		
Operating Temperature (°C)	-55 to +260			
Storage Temperature (°C)	-55 to +260			
<b>PHYSICAL</b>				
Sensing Element	Ceramic (shear mode)			
Case Material	Stainless Steel			
Cable	Not Applicable			
Weight (grams)	11			
Mounting	Through Hole (#8 or M4 cap screw)			
Mounting Torque	16 lb-in (1.8 N-m)			
AWG	Not Applicable			

<sup>1</sup> Operating range over which the accelerometer meets the linearity specifications

<sup>2</sup> Low-end response of the accelerometer is a function of its associated electronics.

<b>Supplied accessories:</b>	AC-D02787	1x #8-32 Mounting Screw (5/8 inch length)
<b>Optional accessories:</b>	310-XXX	Cable Assembly, 10-32 to 10-32 (XXX designates length in inches, 10ft standard)
	AC-D02327	Triaxial Mounting Block
	AC-D02328	Adhesive Mounting Adaptor
	AC-D02636	Magnetic Mounting Adaptor

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## ordering info

PART NUMBERING Model Number+Range

EGPE-2A-GGGG  
 |  
 | \_\_\_\_ Range (0500 is 500g)

Example: EGPE-2A-0500  
 Model EGPE-2A, 500g