

Model EGPE-2A Accelerometer

Charge Output Accelerometer
High Temperature Performance
Wide Bandwidth
Hermetically Sealed

Description

The Measurement Specialties model EGPE-2A is a piezoelectric charge mode accelerometer designed for high frequency vibration and shock measurements. The accelerometer incorporates an annual 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.



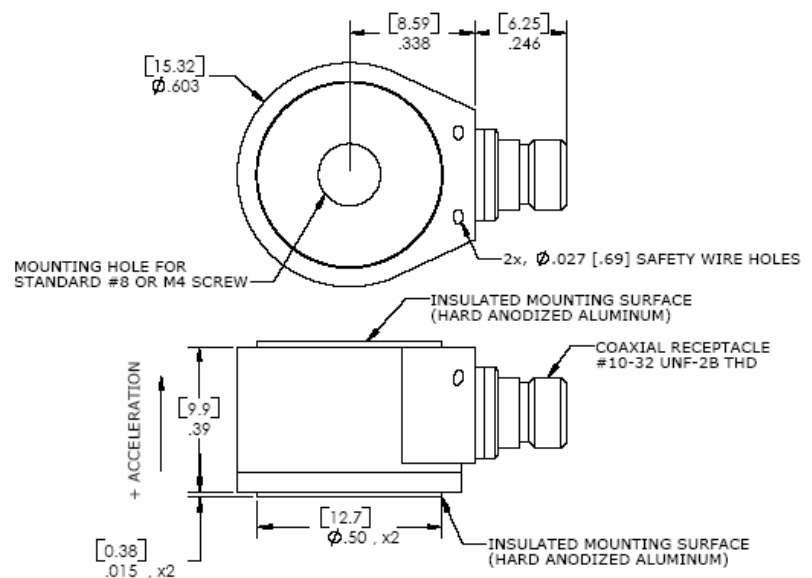
dimensions

FEATURES

- Through Hole Mount Accelerometer
- Accommodates Standard Mounting Screws
- Ranges: $\pm 50g$ to $\pm 2000g$
- Wide Bandwidth
- +260°C Operation
- High Shock Limits
- Stable Temperature Response
- Annular Shear Mode Crystal
- Hermetically Sealed

APPLICATIONS

Aerospace and Flight Test Applications
Vibration/Shock Monitoring
High Temperature Applications
High Frequency Applications



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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

				Units	Notes
DYNAMIC					
Range ¹	±50	±500	±2000	g	
Sensitivity	20.0	13.0	6.5	pC/g	Nominal
Frequency Response ²	1-5000	1-10000	1-12000	Hz	±5%
Frequency Response ²	.1-10000	.1-15000	.1-15000	Hz	±1dB
Resonant Frequency	40	40	48	kHz	Typical
Shock Limit	5000	5000	5000		
Linearity		±2		%	Maximum
Transverse Sensitivity (Max)		±5		%	±3% Typical
ELECTRICAL					
Capacitance		1050		pF	Nominal
Insulation Resistance (@50Vdc)		100		MΩ	Minimum
Grounding		Case Grounded			
Ground Isolation		Isolated			
PHYSICAL					
Sensing Element		Ceramic (shear mode)			
Housing		Stainless Steel			
Weight		11		grams	
Mounting		Through Hole (#8 or M4 cap screw)			
ENVIRONMENTAL					
Shock Limit		5,000		g's	
Operating Temperature		-54 to +260		°C	
Humidity		Hermetically sealed			
OPTIONAL ACCESSORIES					
310-XXX		Cable Assembly (XXX designates length in inches, 10ft standard)			
AC-D02327		Triax Mounting Block			
AC-D02328		Adhesive Mounting Adaptor			
AC-D02636		Magnetic Mounting Adaptor			

¹ Operating range over which the accelerometer meets the linearity specifications

² Low-end response of the accelerometer is a function of its associated electronics.

ordering information

EGPE-2A-2000

