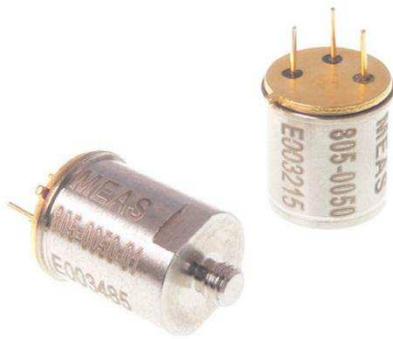


MODEL 705 ACCELEROMETER



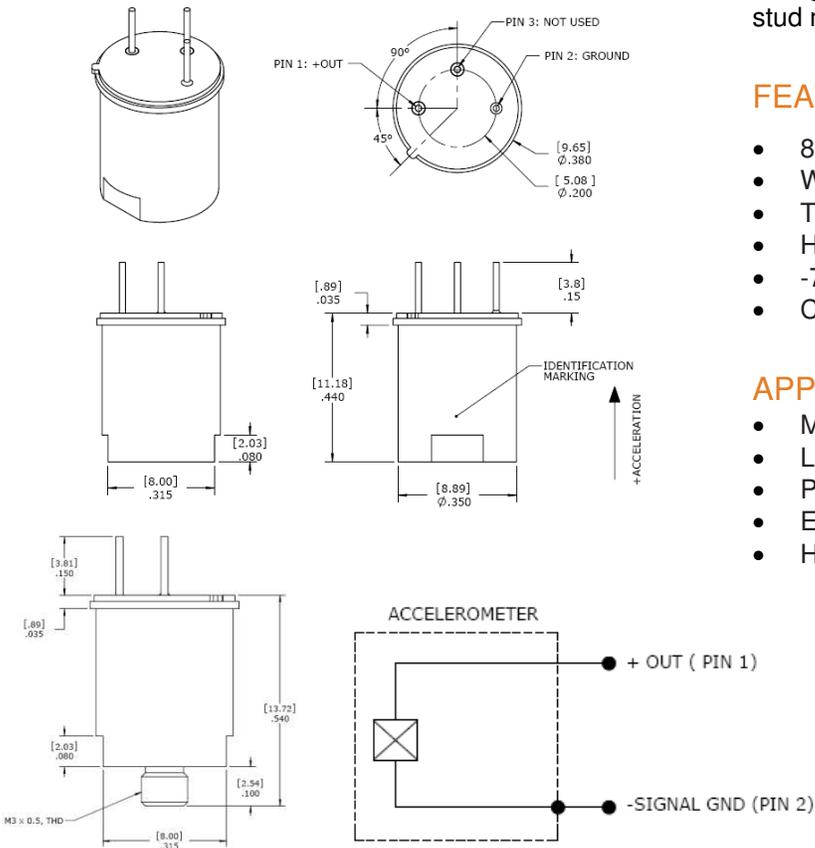
SPECIFICATIONS

- TO-5 Series Accelerometer
- 8pC/g Output, 8kHz Bandwidth
- Low-Cost, Embedded Applications
- Miniature Size

The **Model 705** is a miniature piezoelectric charge mode accelerometer designed for embedded applications. The accelerometer is packaged in a small, stainless steel housing with a 3-pin TO-5 header and offers a nominal output of 8pC/g. The **model 705** incorporates a stable piezo-ceramic crystal in a 100% shielded and hermetically sealed housing suitable for many embedded OEM applications.

The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

DIMENSIONS



M3 Stud Mounting for -01

FEATURES

- 8pC/g Output Sensitivity
- Wide Bandwidth up to 8kHz
- TO-5 Configuration
- Hermetically Sealed
- -73°C to +200°C Operating Range
- Case Grounded Design

APPLICATIONS

- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution
- High Temperature

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters

DYNAMIC

		Notes
Sensitivity (pC/g)	8.0	Typical
Sensitivity (pC/g)	5.0	Minimum
Frequency Response (Hz) ²	1-6000	±10%
Frequency Response (Hz) ²	0.5-8000	±2dB
Natural Frequency (Hz)	46000	
Non-Linearity (%FSO)	±1/1000g	
Transverse Sensitivity (%)	<5	
Dynamic Range (g) ¹	±4000	
Shock Limit (g)	5000	

ELECTRICAL

Capacitance (pF)	600	Nominal
Insulation Resistance (MΩ)	>100	@100Vdc
Ground Isolation	Case Grounded	

ENVIRONMENTAL

Temperature Response (%)	±10%
Operating Temperature (°C)	-73 to +200
Storage Temperature (°C)	-73 to +200
Humidity	Hermetically Sealed

PHYSICAL

Sensing Element	Piezo-Ceramic, Compression Mode
Case Material	Stainless Steel
Weight (grams)	5.0
Mounting	Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)

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.

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

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ORDERING INFORMATION

PART NUMBERING Model Number+Options

705-XX

|_____ Optional Stud Dash Number

Dash Number
-01

Stud Options
M3 x 0.5 6g

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