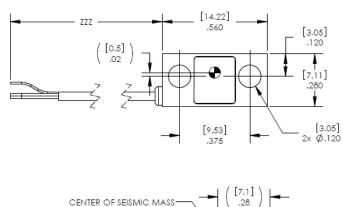
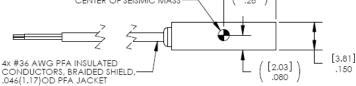




dimensions





MODEL 3700 ACCELEROMETER

SPECIFICATIONS

- Shock & Impact Testing
- Piezoresistive MEMS
- mV Output, DC Response
- Low Noise, Shielded Cable

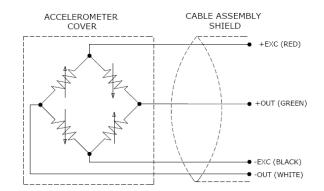
The Model 3700 is a MEMS piezoresistive shock accelerometer in a rugged stainless steel package. The accelerometer is available in ranges from is offered in ranges from ± 50 to ± 6000 g and is ideal for long duration shock transient measurements. The accelerometer incorporates mechanical over-range stops and is packaged in an industry standard footprint.

FEATURES

- ±50g to ±6000g Dynamic Range
- 10,000g Shock Protection
- Environmentally Sealed
- Gas Damping
- mV Output
- Stainless Steel Housing
- Bolt Mounted

APPLICATIONS

- Impact Testing
- Structural Testing
- Transient Shock Testing
- Auto Safety Applications



PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (% Damping Ratio Shock Limit (g)		±50 2.0 0-1000 0-1400 4000 ±1.0 <3 0.6 10000	±100 0.9 0-1400 0-1800 6000 ±1.0 <3 0.5 10000	±200 0.7 0-1500 0-1900 8000 ±1.0 <3 0.5 10000	±500 0.4 0-2000 0-2800 15000 ±1.0 <3 0.3 10000	±2000 0.15 0-5000 0-7000 24000 ±1.0 <3 0.15 10000	±6000 0.08 0-5000 0-7000 26000 ±2.0 <3 0.1 10000	Notes @10Vdc Excitation ±1/2dB ±1dB <1% Option
ELECTRICAL Zero Acceleration Output Excitation Voltage (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (MG Residual Noise (μ V RMS) Ground Isolation	2)	<±25 2 to 10 2400-6000 2400-6000 >100 <10 Isolated fr		ng surface				Differential @100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity		±0.04 -0.15 -55 to +12 -55 to +12 Epoxy Se	Typical Typical					
PHYSICAL Case Material Cable Weight (grams) Mounting Mounting Torque		Stainless Steel 4x #36 AWG Leads, PFA Insulated, Braided Shield, PFA Jacket 2.1 2x #4-40 or M3 Mounting Screws 8 Ib-in (0.9 N-m)						
¹ Output is ratiometric to excitation voltage								
Calibration supplied:	CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Limit							
Supplied accessories:	2x #4-40 Mounting Screws (1/4 inch length)							
Ontional accessories:		03340	Triavial M	lounting Block				

Optional accessories:AC-D03249Triaxial Mounting Block1213-Channel Precision Low Noise DC Amplifier140AAuto-Zero Inline Amplifier

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ORDERING INFO

3700	GGG	ZZZ
Series Type		
Range 050=50g 100=100g 200=200g 500=500g 2K=2000g 6K=6000g		
Cable length 060=60 inches 120=120 inches 180=180 inches 240=240 inches 300=300 inches 360=360 inches 480=480 inches 600=600 inches 197=197 inches, 5 meters 394=394 inches, 10 meters		

Example; 3700-100-060

Model 3700,100g range, 60inch cable length

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