

Model Number 3713F12100G		TRIAXIAL DC RESPONSE ACCELEROMETER			Revision: NR ECN #: 49386	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)		13.5 mV/g	1.38 mV/(m/s ²)	[5]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range		± 100 g pk	± 981 m/s ² pk			
Frequency Range(± 5 %)		0 to 1500 Hz	0 to 1500 Hz			
Frequency Range(± 10 %)		0 to 2500 Hz	0 to 2500 Hz			
Resonant Frequency		8.5 kHz	8.5 kHz	[2]		
Phase Response(100 Hz)		<10 °	<10 °			
Non-Linearity		≤ 1 %	≤ 1 %	[6]		
Broadband Resolution(0.5 to 100 Hz)		3.5 mg rms	0.034 m/s ² rms	[2]		
Transverse Sensitivity		≤ 3 %	≤ 3 %			
Environmental						
Overload Limit(Shock)		± 3000 g pk	± 29,420 m/s ² pk			
Temperature Range(Operating)		-65 to +250 °F	-54.0 to +121 °C			
Temperature Range(Storage)		-65 to +250 °F	-54.0 to +121 °C			
Temperature Coefficient of Sensitivity		± 2.5 %	± 2.5 %	[3]		
Zero g Offset Temperature Coefficient		± 1.5 % FSO	± 1.5 % FSO	[3][4]		
Base Strain Sensitivity		0.001 g/με	0.01 (m/s ²)/με	[2]		
Magnetic Sensitivity		40 μg/gauss	3.9 (m/s ²)/Tesla	[2]		
Electrical						
Excitation Voltage		5 to 32 VDC	5 to 32 VDC			
Current Consumption		≤ 15 mA	≤ 15 mA			
Output Impedance		≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)		± 20 mVDC	± 20 mVDC	[1]		
Spectral Noise		500 μg/√Hz	4905 (μm/sec ²)/√Hz	[2]		
Electrical Isolation(Case)		>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical					SUPPLIED ACCESSORIES: Model 080A12 Adhesive Mounting Base (1) Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-172T Triaxial Phase and Amplitude Calibration from 5 Hz to +5% frequency range Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)	
Housing Material		Titanium	Titanium			
Sealing		Hermetic	Hermetic			
Size (Length x Width x Height)		0.8 in x 0.8 in x 0.8 in	20.3 mm x 20.3 mm x 20.3 mm			
Weight(with cable)		4.2 oz	119 gm			
Electrical Connector		Integral Cable	Integral Cable			
Electrical Connection Position		Side	Side			
Cable Type		037 10-cond Shielded	037 10-cond Shielded			
Cable Length		10 ft	3.05 m			
Mounting Thread		10-32 Female	10-32 Female			
[7] <						