

Model Number 3713F112G	TRIAXIAL DC RESPONSE ACCELEROMETER				Revision: NR ECN #: 49223
Performance		ENGLISH	SI	OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity(± 3 %)		675 mV/g	68.8 mV/(m/s ²)		
Measurement Range		± 2 g pk	± 19.6 m/s ² pk		
Frequency Range(± 5 %)		0 to 250 Hz	0 to 250 Hz		
Frequency Range(± 10 %)		0 to 350 Hz	0 to 350 Hz		
Resonant Frequency		1.2 kHz	1.2 kHz		
Phase Response(10 Hz)		<2.5 °	<2.5 °		
Non-Linearity		≤ 1 %	≤ 1 %		
Broadband Resolution(0.5 to 100 Hz)		0.1 mg rms	0.001 m/s ² rms		
Transverse Sensitivity		≤ 3 %	≤ 3 %		
Environmental				NOTES: [1] Offset tolerance is based on 10 ft of 037 test cable. [2] Typical. [3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) [4] FSO= Full Scale Output over the Measurement Range [5] Measured at 5 Hz, 0.5 grms. [6] Zero-based, least-squares, straight line method. [7] See PCB Declaration of Conformance PS027 for details.	
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 %		
Zero g Offset Temperature Coefficient		± 1.5 % FSO	± 1.5 % FSO		
Base Strain Sensitivity		0.001 g/με	0.01 (m/s ²)/με		
Magnetic Sensitivity		200 μg/gauss	19.6 (m/s ²)/Tesla		
Electrical					
Excitation Voltage		5 to 32 VDC	5 to 32 VDC		
Current Consumption		≤ 15 mA	≤ 15 mA	SUPPLIED ACCESSORIES: Model 080A12 Adhesive Mounting Base (1) Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-85T Triaxial Phase and Magnitude Calibration form 0.5 Hz to 5% pt on linear scale (1) Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)	
Output Impedance		≤ 120 Ohm	≤ 120 Ohm		
Offset Voltage(0 g)		± 20 mVDC	± 20 mVDC		
Spectral Noise		10 μg/√Hz	98.1 (μm/sec ²)/√Hz		
Electrical Isolation(Case)		>10 ⁸ Ohm	>10 ⁸ Ohm		
Physical					
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		0.6 oz	17.3 gm		
Electrical Connector		9-Pin	9-Pin		
Electrical Connection Position		Side	Side		
Mounting Thread		10-32 Female	10-32 Female		
 All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice. This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit http://www.pcb.com		Entered: LK		Engineer: NJF	Sales: WDC
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