

Model Number 3713E11200G		TRIAXIAL DC RESPONSE ACCELEROMETER			Revision: C ECN #: 44052	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Sensitivity(± 3 %)		10 mV/g	1 mV/(m/s²)	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		± 200 g pk	± 1962.0 m/s² pk	[5]		
Frequency Range(± 3 dB)		0 to 3000 Hz	0 to 3000 Hz	[2]		
Frequency Range(± 3 dB)		0 to 1500 Hz	0 to 1500 Hz	[6]		
Phase Response(100 Hz)		<10 °	<10 °			
Broadband Resolution(0.5 to 100 Hz)		3 mg rms	.03 m/s² rms	[2]		
Non-Linearity		≤ 1 %	≤ 1 %	[7][4]		
Transverse Sensitivity		≤ 5 %	≤ 5 %			
Environmental				NOTES:		
Overload Limit(Shock)		± 5000 g pk	± 49,050 m/s² pk	[1]Offset tolerance is based on 10 ft of 037 test cable.		
Temperature Range(Operating)		-65 to +250 °F	-54.0 to +121 °C	[2]Typical.		
Temperature Range(Storage)		-65 to +250 °F	-54.0 to +121 °C	[3]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)		
Temperature Coefficient of Sensitivity		± 3 %	± 3 %	[3][4]		
Zero g Offset Temperature Coefficient		± 2 % FSO	± 2 % FSO	[4]FSO = Full Scale Output over the Measurement Range (4VDC).		
Base Strain Sensitivity(Measured at 250 µε)		.001 g/µε	.01 (m/s²)/µε	[5]Measured at 100 Hz.		
Magnetic Sensitivity		100 µg/gauss	9.8 (m/s²)/Tesla	[6]Minimum, verified with Calibration data.		
Electrical				[7]Least-squares, straight line method, % FSO.		
Excitation Voltage		6 to 30 VDC	6 to 30 VDC	[8]See PCB Declaration of Conformance PS027 for details.		
Current Consumption		≤ 30 mA	≤ 30 mA			
Output Impedance		≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)		± 80 mVDC	± 80 mVDC	[1]		
Spectral Noise(1 to 100 Hz)		400 µg/√Hz	3924 (µm/sec²)/√Hz	[2]		
Electrical Isolation(Case)		>10 ⁸ Ohm	>10 ⁸ Ohm			
Physical				SUPPLIED ACCESSORIES:		
Housing Material		Titanium	Titanium	Model 080A12 Adhesive Mounting Base (1)		
Sealing		Hermetic	Hermetic	Model 081B05 Mounting Stud (10-32 to 10-32) (1)		
Size (Length x Width x Height)		0.85 in x 0.85 in x 0.85 in	21.6 mm x 21.6 mm x 21.6 mm	Model ACS-145T Triaxial Calibration Phase and Magnitude from 2 Hz to ±3dB using Linear scale (1)		
Weight		0.8 oz	22.7 gm	Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)		
Electrical Connector		9-Pin	9-Pin			
Electrical Connection Position		Side	Side			
Mounting Thread		10-32 Female	10-32 Female			
 [8]						
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.						
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