

Model Number 3711F1130G	DC RESPONSE ACCELEROMETER				Revision: NR ECN #: 49223
Performance Sensitivity(± 3 %) 45 mV/g Measurement Range ± 30 g pk Frequency Range(± 5 %) 0 to 1500 Hz Frequency Range(± 10 %) 0 to 2000 Hz Resonant Frequency 5.2 kHz Phase Response(100 Hz) <10 ° Broadband Resolution(0.5 to 100 Hz) 1 mg rms Non-Linearity ≤ 1 % Transverse Sensitivity ≤ 3 %		ENGLISH 45 mV/g ± 30 g pk 0 to 1500 Hz 0 to 2000 Hz 5.2 kHz <10 ° 1 mg rms ≤ 1 % ≤ 3 %		SI 4.59 mV/(m/s²) ± 294.2 m/s² pk 0 to 1500 Hz 0 to 2000 Hz 5.2 kHz <10 ° 0.01 m/s² rms ≤ 1 % ≤ 3 %	
Environmental Overload Limit(Shock) ± 5000 g pk Temperature Range(Operating) -65 to +250 °F Temperature Range(Storage) -65 to +250 °F Temperature Coefficient of Sensitivity ± 2.5 % Zero g Offset Temperature Coefficient ± 1.5 % FSO Base Strain Sensitivity 0.001 g/με Magnetic Sensitivity 40 μg/gauss		± 49,050 m/s² pk -54.0 to +121 °C -54.0 to +121 °C ± 2.5 % ± 1.5 % FSO 0.01 (m/s²)/με 3.9 (m/s²)/Tesla		[5] [6] [2] [7] 	
Electrical Excitation Voltage 5 to 32 VDC Current Consumption ≤ 5 mA Output Impedance ≤ 120 Ohm Offset Voltage(0 g) +/-20 mVDC Spectral Noise 120 μg/√Hz Electrical Isolation(Case) >10⁸ Ohm		5 to 32 VDC ≤ 5 mA ≤ 120 Ohm +/-20 mVDC 1177 (μm/sec²)/√Hz >10⁸ Ohm		[3] [3][4] [2] [2] [1] [2]	
Physical Housing Material Titanium Sealing Hermetic Size (Height x Length x Width) 0.45 in x 0.85 in x 0.85 in Weight 0.58 oz Electrical Connector 4-Pin Electrical Connection Position Side Mounting Through Hole		Titanium Hermetic 11.4 mm x 21.6 mm x 21.6 mm 16.3 gm 4-Pin Side Through Hole			
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.					
NOTES: [1] Offset tolerance is based on 10 ft of 010 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 100 Hz, 1 grms. [6] Typical value. [7] Zero-based, least-squares, straight line method. [8] See PCB Declaration of Conformance PS027 for details.					
SUPPLIED ACCESSORIES: Model 080A152 Easy Mount Clip (1) Model 081A113 Mounting screw assembly (2) Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range Model M081A113 Mounting screw assembly (2)					
Entered: LK		Engineer: NJF		Sales: WDC	
Date: 3/15/2019		Date: 3/15/2019		Date: 3/15/2019	
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