




Model Number 3741E122G	DC RESPONSE ACCELEROMETER			Revision: C ECN #: 46196										
Performance	ENGLISH	SI		OPTIONAL VERSIONS										
Sensitivity(± 3 %)	2000 mV/g	203.9 mV/(m/s ²)	[6]	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	± 2 g pk	± 19.6 m/s ² pk												
Frequency Range(± 3 dB)	0 to 200 Hz	0 to 200 Hz	[7]											
Frequency Range(± 3 dB)	0 to 400 Hz	0 to 400 Hz	[2]											
Phase Response(10 Hz)	<3.0 °	<3.0 °												
Broadband Resolution(0.5 to 100 Hz)	.1 mg rms	.001 m/s ² rms	[2]											
Non-Linearity	≤ 1 %	≤ 1 %	[8]											
Transverse Sensitivity	≤ 5 %	≤ 5 %												
Environmental				NOTES:										
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s ² pk		[1] Offset tolerance is based on manufacturers supplied cable length.										
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C		[2] Typical.										
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C		[3] Case and shield to mounting surface or cable leads.										
Temperature Coefficient of Sensitivity	± 5 %	± 5 %	[4]	[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)										
Zero g Offset Temperature Coefficient	± 4 % FSO	± 4 % FSO	[5][4]	[5] FSO = Full Scale Output over the Measurement Range (8VDC).										
Base Strain Sensitivity(Measured at 250 µε)	.0005 g	.0049 m/s ²	[2]	[6] Measured at 10 Hz, 1.0 pk										
Electrical				[7] Minimum, verified with Calibration data.										
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		[8] Least-squares, straight line method, % FSO.										
Current Consumption	≤ 10 mA	≤ 10 mA		[9] See PCB Declaration of Conformance PS025 for details.										
Output Impedance	≤ 120 Ohm	≤ 120 Ohm												
Offset Voltage(0 g)	± 320 mVDC	± 320 mVDC	[1]											
Common Mode Voltage(± 0.1 VDC)	+2.5 VDC	+2.5 VDC												
Spectral Noise(1 to 100 Hz)	20 µg/√Hz	196 (µm/sec ²)/√Hz	[2]											
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]											
Physical				SUPPLIED ACCESSORIES:										
Housing Material	Anodized Aluminum	Anodized Aluminum		Model 081A103 Mounting screw (2)										
Sealing	Epoxy	Epoxy		Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)										
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.5 mm x 25.4 mm x 21.6 mm		Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)										
Weight(without cable)	0.35 oz	9.92 gm	[2]											
Electrical Connector	Integral Cable	Integral Cable		OPTIONAL ACCESSORIES:										
Electrical Connection Position	Side	Side		Model 080A208 Triaxial mounting block										
Cable Termination	Pigtail Ends	Pigtail Ends												
Cable Type	010 4-cond Shielded	010 4-cond Shielded												
Cable Length	10 ft	10 ft												
Mounting	Through Holes (2)	Through Holes (2)												
<table border="1"> <tr> <td>Entered: LK</td> <td>Engineer: JJD</td> <td>Sales: WDC</td> <td>Approved: NJF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 11/23/2016</td> <td>Date: 11/23/2016</td> <td>Date: 11/23/2016</td> <td>Date: 11/23/2016</td> <td>60418</td> </tr> </table>					Entered: LK	Engineer: JJD	Sales: WDC	Approved: NJF	Spec Number:	Date: 11/23/2016	Date: 11/23/2016	Date: 11/23/2016	Date: 11/23/2016	60418
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 <p>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.</p>				 <p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p>										
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