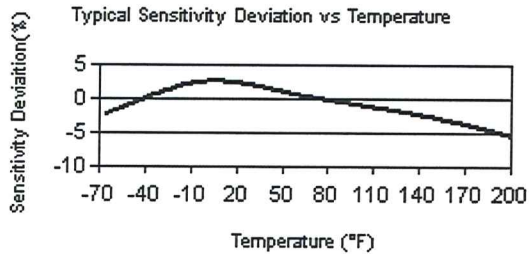


Model Number 66212APZ1	ICP® TO-5 ACCELEROMETER			Revision: A ECN #: 35587																																																																																																																																
Performance <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>ENGLISH</th> <th>SI</th> <th></th> </tr> </thead> <tbody> <tr> <td>Sensitivity(± 20 %)</td> <td>100 mV/g</td> <td>1.02 mV/(m/s²)</td> <td>[2][3]</td> </tr> <tr> <td>Measurement Range</td> <td>± 50 g</td> <td>± 490 m/s²</td> <td></td> </tr> <tr> <td>Frequency Range(± 3 dB)</td> <td>0.5 to 10k Hz</td> <td>0.5 to 10k Hz</td> <td>[4][5]</td> </tr> <tr> <td>Resonant Frequency</td> <td>>25 kHz</td> <td>>25 kHz</td> <td>[5]</td> </tr> <tr> <td>Broadband Resolution</td> <td>350 µg rms</td> <td>3434 µm/sec² rms</td> <td>[1]</td> </tr> <tr> <td>Non-Linearity</td> <td>≤ 1 %</td> <td>≤ 1 %</td> <td>[6]</td> </tr> <tr> <td>Transverse Sensitivity</td> <td>≤ 7 %</td> <td>≤ 7 %</td> <td></td> </tr> </tbody> </table> Environmental <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Overload Limit(Shock)</td> <td>5000 g pk</td> <td>49k m/s² pk</td> <td></td> </tr> <tr> <td>Temperature Range(Operating)</td> <td>-65 to +185 °F</td> <td>-54 to -84 °C</td> <td></td> </tr> <tr> <td>Temperature Response</td> <td>See Graph</td> <td>See Graph</td> <td>[1]</td> </tr> </tbody> </table> Electrical <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Settling Time(within 1% of bias)</td> <td>≤ 2 sec</td> <td>≤ 2 sec</td> <td></td> </tr> <tr> <td>Discharge Time Constant</td> <td>≥ 0.3 sec</td> <td>≥ 0.3 sec</td> <td></td> </tr> <tr> <td>Excitation Voltage</td> <td>18 to 28 VDC</td> <td>18 to 28 VDC</td> <td></td> </tr> <tr> <td>Constant Current Excitation</td> <td>2 to 20 mA</td> <td>2 to 20 mA</td> <td></td> </tr> <tr> <td>Output Impedance</td> <td><150 ohm</td> <td><150 ohm</td> <td></td> </tr> <tr> <td>Output Bias Voltage(± 10 %)</td> <td>8 to 12 VDC</td> <td>8 to 12 VDC</td> <td></td> </tr> <tr> <td>Spectral Noise(10 Hz)</td> <td>8 µg/√Hz</td> <td>78.50 (µm/sec²)/√Hz</td> <td>[1]</td> </tr> <tr> <td>Spectral Noise(100 Hz)</td> <td>5 µg/√Hz</td> <td>49.1 (µm/sec²)/√Hz</td> <td>[1]</td> </tr> <tr> <td>Spectral Noise(1 kHz)</td> <td>4 µg/√Hz</td> <td>39.2 (µm/sec²)/√Hz</td> <td>[1]</td> </tr> </tbody> </table> Physical <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Size (Lip Diameter x Height)</td> <td>0.36 in x 0.38 in</td> <td>9.1 mm x 9.7 mm</td> <td></td> </tr> <tr> <td>Weight</td> <td>0.01 oz</td> <td>3 gm</td> <td></td> </tr> <tr> <td>Mounting</td> <td>Adhesive/Solder</td> <td>Adhesive/Solder</td> <td></td> </tr> <tr> <td>Sensing Element</td> <td>Ceramic</td> <td>Ceramic</td> <td></td> </tr> <tr> <td>Sensing Geometry</td> <td>Shear</td> <td>Shear</td> <td></td> </tr> <tr> <td>Housing Material</td> <td>Stainless Steel</td> <td>Stainless Steel</td> <td></td> </tr> <tr> <td>Sealing</td> <td>Welded Hermetic</td> <td>Welded Hermetic</td> <td></td> </tr> <tr> <td>Electrical Connector</td> <td>Header Pins</td> <td>Header Pins</td> <td></td> </tr> <tr> <td>Electrical Connection Position</td> <td>Bottom</td> <td>Bottom</td> <td></td> </tr> <tr> <td>Electrical Connections(Pin 1)</td> <td>Signal / Power</td> <td>Signal / Power</td> <td></td> </tr> <tr> <td>Electrical Connections(Pin 2)</td> <td>Neg (-) Ground</td> <td>Neg (-) Ground</td> <td></td> </tr> <tr> <td>Electrical Connections(Pin 3)</td> <td>No Connection</td> <td>No Connection</td> <td></td> </tr> </tbody> </table> 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. HT - High temperature, extends normal operation temperatures Temperature Range(Operating) -65 to 250 °F -54 to 121 °C RH - RoHS Compliant NOTES: [1] Typical. [2] Positive output along Z-axis (in upward direction when pin mounted). [3] Conversion Factor 1g = 9.81 m/s². [4] The high frequency tolerance is accurate within ±10% of the specified frequency. [5] Performance depends on mounting [6] Zero-based, least-squares, straight line method. [7] See PCB Declaration of Conformance PS023 or PS060 for details. SUPPLIED ACCESSORIES: Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)						ENGLISH	SI		Sensitivity(± 20 %)	100 mV/g	1.02 mV/(m/s ²)	[2][3]	Measurement Range	± 50 g	± 490 m/s ²		Frequency Range(± 3 dB)	0.5 to 10k Hz	0.5 to 10k Hz	[4][5]	Resonant Frequency	>25 kHz	>25 kHz	[5]	Broadband Resolution	350 µg rms	3434 µm/sec ² rms	[1]	Non-Linearity	≤ 1 %	≤ 1 %	[6]	Transverse Sensitivity	≤ 7 %	≤ 7 %		Overload Limit(Shock)	5000 g pk	49k m/s ² pk		Temperature Range(Operating)	-65 to +185 °F	-54 to -84 °C		Temperature Response	See Graph	See Graph	[1]	Settling Time(within 1% of bias)	≤ 2 sec	≤ 2 sec		Discharge Time Constant	≥ 0.3 sec	≥ 0.3 sec		Excitation Voltage	18 to 28 VDC	18 to 28 VDC		Constant Current Excitation	2 to 20 mA	2 to 20 mA		Output Impedance	<150 ohm	<150 ohm		Output Bias Voltage(± 10 %)	8 to 12 VDC	8 to 12 VDC		Spectral Noise(10 Hz)	8 µg/√Hz	78.50 (µm/sec ²)/√Hz	[1]	Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec ²)/√Hz	[1]	Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec ²)/√Hz	[1]	Size (Lip Diameter x Height)	0.36 in x 0.38 in	9.1 mm x 9.7 mm		Weight	0.01 oz	3 gm		Mounting	Adhesive/Solder	Adhesive/Solder		Sensing Element	Ceramic	Ceramic		Sensing Geometry	Shear	Shear		Housing Material	Stainless Steel	Stainless Steel		Sealing	Welded Hermetic	Welded Hermetic		Electrical Connector	Header Pins	Header Pins		Electrical Connection Position	Bottom	Bottom		Electrical Connections(Pin 1)	Signal / Power	Signal / Power		Electrical Connections(Pin 2)	Neg (-) Ground	Neg (-) Ground		Electrical Connections(Pin 3)	No Connection	No Connection	
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<i>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.</i> ICP® is a registered trademark of PCB Group, Inc. IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043 Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com																																																																																																																																				
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