

Model Number 301A12	ICP® ACCELEROMETER		Revision C ECN #: 32967	
<b>Performance</b> Sensitivity (±20 %) Measurement Range Frequency Range (±5 %) Resonant Frequency Broadband Resolution Non-Linearity (per 1000 g (9810 m/s <sup>2</sup> ) Transverse Sensitivity	<b>ENGLISH</b> 0.5 mV/g ±10000 g pk 1 to 10000 Hz ≥30 kHz 0.02 g rms ≤0.1 % ≤3 %	<b>SI</b> 0.051 mV/(m/s <sup>2</sup> ) ±98100 m/s <sup>2</sup> pk 1 to 10000 Hz ≥30 kHz 0.20 m/s <sup>2</sup> rms ≤0.1 % ≤3 %	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)  <b>Notes</b> [1] Typical. [2] See PCB Declaration of Conformance PS023 for details.	
<b>Environmental</b> Overload Limit Temperature Range	±12500 g pk -65 to 250 °F	±122625 m/s <sup>2</sup> pk -54 to 121 °C	<b>Supplied Accessories</b> 081A08 Mounting Stud (10-32 to 1/4-28) (2) 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (2) ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) ACS-14 High G shock accelerometer calibration using Hopkinson bar. () M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (2)	
<b>Electrical</b> Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Discharge Time Constant	18 to 30 VDC 2 to 20 mA <100 8 to 12 VDC 0.5 to 2.0 sec	18 to 30 VDC 2 to 20 mA <100 8 to 12 VDC 0.5 to 2.0 sec		
<b>Physical</b> Size (Height) Weight Sensing Element Size (Hex) Sensing Geometry Housing Material  Sealing Electrical Connector Electrical Connection Position Mounting Thread (Shaker Mount) Mounting Thread (Unit Under Test Mount)	1.43 in 1.5 oz Quartz 5/8 in Shear 17-4 Stainless Steel Steel Hermetic 10-32 Coaxial Jack Side 1/4-28 Male 1/4-28 Female	36.3 mm 42 gm Quartz 5/8 in Shear 17-4 Stainless Steel Hermetic 10-32 Coaxial Jack Side 1/4-28 Male 1/4-28 Female		
 [2]				
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p>				
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