
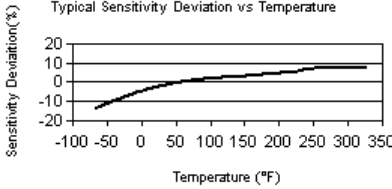



Model Number 356A02	ACCELEROMETER, ICP[®], TRIAXIAL		Revision P ECN #: 32915										
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) HT - High temperature, extends normal operation temperatures [3] Frequency Range ($\pm 5\%$) 1 to 5000 Hz 1 to 5000 Hz Frequency Range ($\pm 10\%$) 0.7 to 6000 Hz 0.7 to 6000 Hz Broadband Resolution (1 to 10000 Hz) 0.0008 g rms 0.008 $\mu\text{m}/\text{sec}^2$ rms Hz) Temperature Range (Operating) -65 to +325 °F -54 to +163 °C Excitation Voltage 22 to 30 VDC 22 to 30 VDC Output Bias Voltage 7 to 15 VDC 7 to 15 VDC [2] Discharge Time Constant 0.5 to 1.5 sec 0.5 to 1.5 sec Spectral Noise (1 Hz) 400 $\mu\text{g}/\sqrt{\text{Hz}}$ 3920 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) Spectral Noise (10 Hz) 50 $\mu\text{g}/\sqrt{\text{Hz}}$ 490 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) Spectral Noise (100 Hz) 25 $\mu\text{g}/\sqrt{\text{Hz}}$ 245 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) Spectral Noise (1 kHz) 6 $\mu\text{g}/\sqrt{\text{Hz}}$ 58.8 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4 TLA - TEDS LMS International - Free Format TLB - TEDS LMS International - Automotive Format TLC - TEDS LMS International - Aeronautical Format TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Temperature Range -65 to +250 °F -54 to +121 °C Output Bias Voltage 8.5 to 13.0 VDC 8.5 to 13.0 VDC										
Environmental	Sensitivity ($\pm 10\%$) 10 mV/g Measurement Range ± 500 g pk Frequency Range ($\pm 5\%$) 1 to 5000 Hz Frequency Range ($\pm 10\%$) 0.5 to 6000 Hz Resonant Frequency ≥ 25 kHz Broadband Resolution (1 to 10000 Hz) 0.0005 g rms Non-Linearity (400 g, 3920 m/s^2) $\leq 1\%$ Non-Linearity (500 g, 4900 m/s^2) $\leq 2\%$ Transverse Sensitivity $\leq 5\%$	1.02 $\text{mV}/(\text{m}/\text{s}^2)$ ± 4900 m/s^2 pk 1 to 5000 Hz 1 to 5000 Hz ≥ 25 kHz 0.005 m/s^2 rms $\leq 1\%$ $\leq 2\%$ $\leq 5\%$	[1] [4] [4] [3][3] [1]										
Electrical	Excitation Voltage 20 to 30 VDC Constant Current Excitation 2 to 20 mA Output Impedance ≤ 200 Ohm Output Bias Voltage 8 to 12 VDC Discharge Time Constant 0.6 to 2.0 sec Settling Time (within 10% of bias) < 5 sec Spectral Noise (1 Hz) 150 $\mu\text{g}/\sqrt{\text{Hz}}$ Spectral Noise (10 Hz) 25 $\mu\text{g}/\sqrt{\text{Hz}}$ Spectral Noise (100 Hz) 10 $\mu\text{g}/\sqrt{\text{Hz}}$ Spectral Noise (1 kHz) 5 $\mu\text{g}/\sqrt{\text{Hz}}$	20 to 30 VDC 2 to 20 mA ≤ 200 Ohm 8 to 12 VDC 0.6 to 2.0 sec < 5 sec 1472 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) 245 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) 98 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$) 49 ($\mu\text{m}/\text{sec}^2/\sqrt{\text{Hz}}$)	[1] [1] [1] [1]										
Physical	Sensing Element Ceramic Sensing Geometry Shear Housing Material Titanium Sealing Hermetic Size (Height x Length x Width) 0.55 in x 0.80 in x 0.55 in Weight 0.37 oz Electrical Connector 1/4-28 4-Pin Electrical Connection Position Side Mounting Thread 10-32 Female Mounting Torque 10 to 20 in-lb	Ceramic Shear Titanium Hermetic 14.0 mm x 20.3 mm x 14.0 mm 10.5 gm 1/4-28 4-Pin Side 10-32 Female 113 to 225 N-cm	[1] Notes [1] Typical. [2] TEDS option adds 1.0 VDC to bias voltage. [3] 250° F to 325° F data valid with HT option only. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details. Supplied Accessories 080A109 Petro Wax (1) 080A12 Adhesive Mounting Base (1) 080A90 Quick Bonding Gel (1) 081B05 Mounting Stud (10-32 to 10-32) (1) ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1) M081B05 Mounting Stud 10-32 to M6 X 0.75 ()										
			<table border="1"> <tr> <td>Entered: LLH</td> <td>Engineer: BAM</td> <td>Sales: WDC</td> <td>Approved: LLH</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 05/12/2010</td> <td>Date: 05/06/2010</td> <td>Date: 05/07/2010</td> <td>Date: 05/12/2010</td> <td>10927</td> </tr> </table>	Entered: LLH	Engineer: BAM	Sales: WDC	Approved: LLH	Spec Number:	Date: 05/12/2010	Date: 05/06/2010	Date: 05/07/2010	Date: 05/12/2010	10927
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Date: 05/12/2010	Date: 05/06/2010	Date: 05/07/2010	Date: 05/12/2010	10927									
	<p>Typical Sensitivity Deviation vs Temperature</p> 	 <p>3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987 E-mail: info@pcb.com Web site: www.pcb.com</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.

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