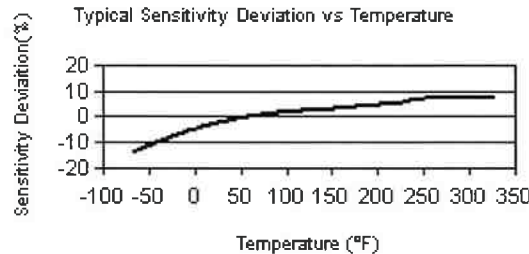


Model Number  
356A26

# TRIAxIAL ICP® ACCELEROMETER

Revision: H  
ECN #: 32945

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	50 mV/g	5.1 mV/(m/s <sup>2</sup> )	
Measurement Range	± 100 g pk	± 981 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 5000 Hz	1 to 5000 Hz	
(± 10 %)	0.7 to 6500 Hz	0.7 to 6500 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 7000 g pk	± 68,600 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[3]
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/µε	0.01 (m/s <sup>2</sup> )/µε	[1]
<b>Electrical</b>			
Excitation Voltage	24 to 30 VDC	24 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.4 to 1.0 sec	0.4 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	75 µg/√Hz	736 (µm/sec <sup>2</sup> )/√Hz	[1]
(10 Hz)	15 µg/√Hz	147 (µm/sec <sup>2</sup> )/√Hz	[1]
(100 Hz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[1]
(1 kHz)	2 µg/√Hz	19.6 (µm/sec <sup>2</sup> )/√Hz	[1]
(10 kHz)	1 µg/√Hz	9.8 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.55 in x 0.80 in x 0.55 in	14.0 mm x 20.3 mm x 14.0 mm	[1]
Weight	0.37 oz	10.5 gm	
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 225 N-cm	



**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.

<b>HT</b> - High temperature, extends normal operation temperatures		
Frequency Range(± 5 %)	6 to 5000 Hz	6 to 5000 Hz
(± 10 %)	5 to 5000 Hz	5 to 5000 Hz
Broadband Resolution(1 to 10,000 Hz)	0.0004 g rms	0.004 µm/sec <sup>2</sup> rms
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C
Output Bias Voltage	7 to 16	7 to 16
Discharge Time Constant	0.08 to 0.5 sec	0.08 to 0.5 sec
Spectral Noise(1 Hz)	130 µg/√Hz	1275 (µm/sec <sup>2</sup> )/√Hz
(10 Hz)	30 µg/√Hz	294 (µm/sec <sup>2</sup> )/√Hz
(100 Hz)	10 µg/√Hz	98.1 (µm/sec <sup>2</sup> )/√Hz
(1 kHz)	3 µg/√Hz	29.4 (µm/sec <sup>2</sup> )/√Hz
(10 kHz)	2 µg/√Hz	19.6 (µm/sec <sup>2</sup> )/√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  
 Output Bias Voltage 8.7 to 13.0 VDC 8.7 to 13.0 VDC

**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:**

- Model 080A109 Petro Wax (1)
- Model 080A12 Adhesive Mounting Base (1)
- Model 080A90 Quick Bonding Gel (1)
- Model 081B05 Mounting Stud (10-32 to 10-32) (1)
- Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
- Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: JA	Engineer: BAY	Sales: WDC	Approved: EB	Spec Number:
Date: 5-18-10	Date: 5-17-10	Date: 5-17-10	Date: 5-17-10	14134

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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