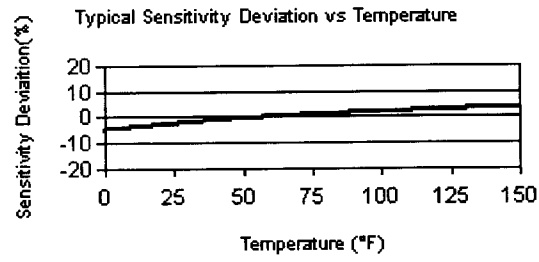


Model Number
333B45

ICP[®] ACCELEROMETER

Revision: F
ECN #: 17564

	ENGLISH	SI	
Performance			
Sensitivity (± 10 %)	500 mV/g	51.0 mV/(m/s ²)	
Measurement Range	± 10 g pk	± 98 m/s ² pk	
Frequency Range (± 5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz	
Resonant Frequency	≥ 20 kHz	≥ 20 kHz	
Phase Response (± 5 °)	2 to 3000 Hz	2 to 3000 Hz	
Broadband Resolution (1 to 10,000 Hz)	0.00005 g rms	0.0005 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit	± 5000 g pk	± 49,000 m/s ² pk	
Temperature Range	0 to +150 °F	-18 to +66 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.01 g/με	0.1 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohms	≤ 200 ohms	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	1.0 to 2.5 sec	1.0 to 2.5 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	15 μg/√Hz	150 (μm/s ²)/√Hz	[1]
Spectral Noise (10 Hz)	3.8 μg/√Hz	37 (μm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	1.1 μg/√Hz	11 (μm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	0.4 μg/√Hz	3.9 (μm/s ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.65 in x 0.45 in x 0.45 in	16.5 mm x 11.4 mm x 11.4 mm	
Weight	0.26 oz	7.5 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	4 to 5 in-lb	45 to 56 N-cm	



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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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.

- 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
- Output Bias Voltage 7.5 to 13 VDC 7.5 to 13 VDC

NOTES:
[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically ≤ 3%.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
Model 080A109 Petro Wax (1)
Model 080A25 Adhesive base, 0.438" hex, 5-40 tapped hole, aluminum hardcoat. (1)
Model 080A90 Quick Bonding Gel (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50" long (1)

Entered: APC	Engineer: APC	Sales: WXL	Approved: [Signature]	Spec Number:
Date: 5.14.3	Date: 5.14.3	Date: 5/14/3	Date: 5/15/3	11857

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