

Performance	ENGLISH	SI	
Sensitivity($\pm 15\%$)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(-5%)	2 to 4000 Hz	2 to 4000 Hz	[3]
Resonant Frequency	≥ 55 kHz	≥ 55 kHz	
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	[1]
Electrical Filter Corner Frequency	15 kHz	15 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	0.008 g rms	0.08 m/s ² rms	[1]
Non-Linearity	$\leq 1\%$	$\leq 1\%$	[4]
Transverse Sensitivity	$\leq 5\%$	$\leq 5\%$	
Environmental			
Overload Limit(Shock)	$\pm 10,000$ g pk	$\pm 98,100$ m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[2]
Temperature Response	See Graph	See Graph	[2]
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 Ohm	≤ 200 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	445 $\mu\text{g}/\sqrt{\text{Hz}}$	4365 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$	[1]
Spectral Noise(10 Hz)	135 $\mu\text{g}/\sqrt{\text{Hz}}$	1325 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$	[1]
Spectral Noise(100 Hz)	90 $\mu\text{g}/\sqrt{\text{Hz}}$	883 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$	[1]
Spectral Noise(1 kHz)	80 $\mu\text{g}/\sqrt{\text{Hz}}$	785 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.40 in x 0.77 in x 0.40 in	10.2 mm x 19.6 mm x 10.2 mm	
Weight	0.19 oz	5.3 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	4 to 5	45 to 56	

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 +325 °F	-54 to +163 °C
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Supplied Accessory : Model 080A Adhesive Mounting Base (1)

Supplied Accessory : Model 081A27 Mounting Stud (5-40 to 5-40) (1)

Supplied Accessory : Model 081A90 Mounting stud, 10-32 to 5-40 (1)

Supplied Accessory : Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

NOTES:

[1] Typical.

[2] 250° F to 325° F data valid with HT option only.

[3] All axes filtered to provide -5% between 4,000 and 6,000 Hz.

[4] Zero-based, least-squares, straight line method.

[5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A Adhesive Mounting Base (1)

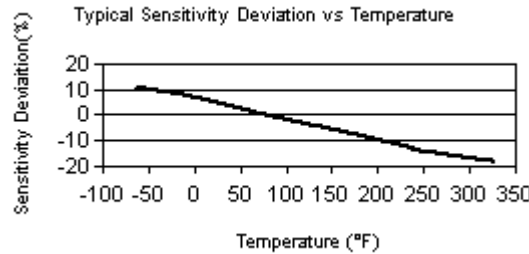
Model 080A109 Petro Wax (1)

Model 081A27 Mounting Stud (5-40 to 5-40) (1)

Model 081A90 Mounting stud, 10-32 to 5-40 (1)

Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)



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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Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
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