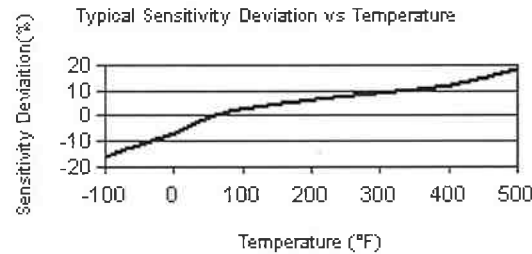


Model Number  
357B21

# CHARGE OUTPUT ACCELEROMETER

Revision: M  
ECN #: 30472

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 15 %)	30 pC/g	3.1 pC/(m/s <sup>2</sup> )	
Measurement Range	± 1500 g pk	± 14,700 m/s <sup>2</sup> pk	
Frequency Range(+5 %)	6 kHz	6 kHz	[2]
Frequency Range(+10 %)	7.5 kHz	7.5 kHz	[2]
Frequency Range(+3 dB)	8.5 kHz	8.5 kHz	[2]
Resonant Frequency	≥ 23 kHz	≥ 23 kHz	
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 6000 g pk	± 58,860 m/s <sup>2</sup> pk	
Temperature Range	-95 to +500 °F	-71 to +260 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.0006 g/με	0.006 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Capacitance	930 pF	930 pF	[1]
Insulation Resistance(at 70° F [21°C])	≥ 10 <sup>12</sup> ohm	≥ 10 <sup>12</sup> ohm	
Insulation Resistance(at 500°F)	≥ 10 <sup>8</sup> ohm	≥ 10 <sup>8</sup> ohm	[1]
Output Polarity	Negative	Negative	
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	5/8 in x 0.85 in	5/8 in x 21.6 mm	
Weight	0.73 oz	21 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	



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.

J - Ground Isolated		
Frequency Range(+5 %)	4 kHz	4 kHz
Frequency Range(+10 %)	5 kHz	5 kHz
Resonant Frequency	≥ 17 kHz	≥ 17 kHz
Electrical Isolation(Base)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm
Size - Hex x Height	0.625 in x 0.90 in	15.9 mm x 22.9 mm

P - Positive Output Polarity		
Output Polarity	Positive	Positive

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

## NOTES:

- [1] Typical.
- [2] Low frequency response is determined by external signal conditioning electronics.
- [3] Zero-based, least-squares, straight line method.

## SUPPLIED ACCESSORIES:

- Model 080A109 Petro Wax (1)
- Model 081B05 Mounting Stud (10-32 to 10-32) (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
- Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: <i>JH</i>	Engineer: <i>BAM</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>4-8-09</i>	Date: <i>4-7-09</i>	Date: <i>4-7-09</i>	Date: <i>4-8-09</i>	357-2210-80

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