

Model Number <b>357E90</b>	<b>CHARGE OUTPUT ACCELEROMETER</b>	Revision: C ECN #: 46956
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	5 pC/g	.51 pC/(m/s <sup>2</sup> )	
Measurement Range	± 1000 g pk	± 9800 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	3 kHz	3 kHz	
Frequency Range(± 1 dB)	5 kHz	5 kHz	
Resonant Frequency	≥ 14 kHz	≥ 14 kHz	
Non-Linearity(per full scale range)	≤ 2.5 %	≤ 2.5 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 2000 g pk	± 19,600 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-67 to 1200 °F	-55 to 649 °C	
Temperature Range(Survivable Limit)	-67 to 1400 °F	-55 to 760 °C	
Temperature Range(Cable Termination)	-67 to 900 °F	-55 to 482 °C	
Temperature Response	See graph	See graph	[1]
Radiation Exposure Limit(Integrated Neutron Flux)	1 E10 N/cm <sup>2</sup>	1 E10 N/cm <sup>2</sup>	
Radiation Exposure Limit(Integrated Gamma Flux)	1 E8 rad	1 E8 rad	
<b>Electrical</b>			
Capacitance	990 pF	990 pF	[1][2]
Insulation Resistance(@ 1200°F[649°C])	≥ 10 kohm	≥ 10 kohm	
Insulation Resistance(@ 70° F [21°C])	≥ 100 MOhm	≥ 100 MOhm	
Electrical Isolation	Signal isolated from case	Signal isolated from case	
<b>Physical</b>			
Sensing Element	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Inconel	Inconel	
Sealing(Sensor Housing)	Hermetic	Hermetic	
Sealing(Connector)	Welded Hermetic	Welded Hermetic	
Size (Height x Length x Width)	.66 in x 1.16 in x .66 in	16.7 mm x 29.5 mm x 16.7 mm	
Weight(without cable)	1.8 oz	50 gm	[1]
Electrical Connector	Integral Hardline Cable	Integral Hardline Cable	
Cable Length	10 ft	3.05 m	
Cable Type	MI Hardline Cable	MI Hardline Cable	
Cable Termination	10-32 Coaxial Jack	10-32 Coaxial Jack	
Mounting	Through Hole	Through Hole	

**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.

**NOTES:**

[1] Typical.  
 [2] Additional cable length will add approx. 100pF/ft.  
 [3] See PCB Declaration of Conformance PS081 for details.

**SUPPLIED ACCESSORIES:**

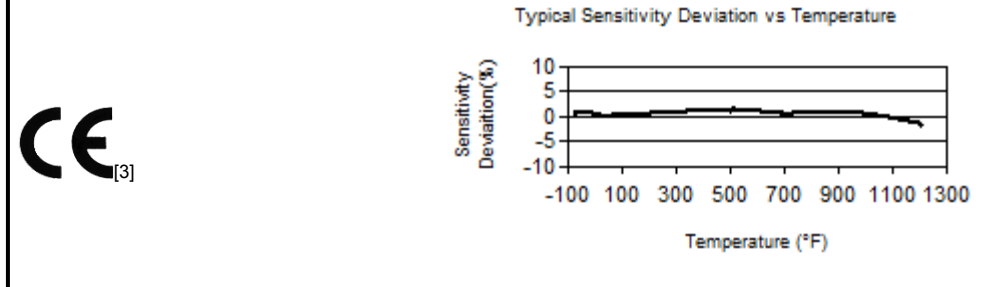
Model 081C108 Mounting Screw, 1/4-28x1, Inconel (1)  
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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All specifications are at room temperature unless otherwise specified.  
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