

Model Number 357E91	CHARGE OUTPUT ACCELEROMETER	Revision: C ECN #: 46956
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 10 %)	5 pC/g	.51 pC/(m/s ²)	
Measurement Range	± 1000 g pk	± 9800 m/s ² pk	
Frequency Range(± 5 %)	3 kHz	3 kHz	
Frequency Range(± 1 dB)	5 kHz	5 kHz	
Resonant Frequency	≥ 13.5 kHz	≥ 13.5 kHz	
Non-Linearity(per full scale range)	≤ 2.5 %	≤ 2.5 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 2000 g pk	± 19,600 m/s ² 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	[2]
Radiation Exposure Limit(Integrated Neutron Flux)	1 E10 N/cm ²	1 E10 N/cm ²	
Radiation Exposure Limit(Integrated Gamma Flux)	1 E8 rad	1 E8 rad	
Electrical			
Capacitance	1000 pF	1000 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	
Physical			
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	[2]
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.

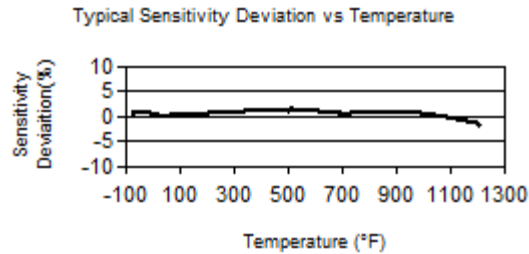
NOTES:

[1] Additional cable length will add approx. 100pF/ft.
 [2] Typical.
 [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.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.
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