

Model Number
EX619A11

CHARGE OUTPUT ACCELEROMETER

Revision: NR
ECN #: 44641

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	50 pC/g	5.1 pC/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	3000 Hz	3000 Hz	[2]
Frequency Range(+10 %)	5000 Hz	5000 Hz	[2]
Resonant Frequency	>18 kHz	>18 kHz	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s ² pk	
Temperature Range	-65 to +900 °F	-54 to +482 °C	
Temperature Response	See Graph	See Graph	[1]
Temperature Response	See Graph	See Graph	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	≤ 0.033 g/με	≤ .32 (m/s ²)/με	
Electrical			
Capacitance(Pin to Pin)	1525 pF	1525 pF	[1]
Capacitance(Pin to Case)	250 pF	250 pF	[1]
Insulation Resistance(Pin to Case 70° F)	>10 ⁹ Ohm	>10 ⁹ Ohm	
Insulation Resistance(Pin to Pin 70° F)	>10 ⁹ Ohm	>10 ⁹ Ohm	
Insulation Resistance(Pin to Pin 900° F)	>100 kohm	>100 kohm	
Output Polarity	Differential	Differential	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Compression	Compression	
Housing Material	Inconel	Inconel	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	1.49 in x 1.63 in x 1.63 in	38 mm x 41.4 mm x 41.4 mm	
Weight(with cable)	19.4 oz	550 gm	[1]
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	
Cable Length	7 ft	2.1 m	
Cable Type	MI Hardline Cable	MI Hardline Cable	
Mounting	Through Holes (4)	Through Holes (4)	

OPTIONAL VERSIONS

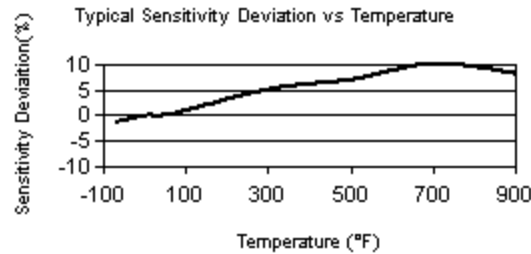
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]Typical.
- [2]Low frequency response is determined by external signal conditioning electronics.
- [3]Zero-based, least-squares, straight line method.
- [4]Transverse sensitivity is typically ≤ 3%.
- [5]See PCB Declaration of Conformance PS141 for details.

SUPPLIED ACCESSORIES:

Model 62177-01 1/4-28 x 1 1/4in long (1)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency



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: JM	Engineer: JJD	Sales: EGY	Approved: NJF	Spec Number:
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