

Model Number 357A100	CHARGE OUTPUT ACCELEROMETER	Revision: E ECN #: 47873
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	ENGLISH	SI	
Performance			
Sensitivity(± 5 %)	5.0 pC/g	.510 pC/(m/s ²)	
Measurement Range	± 200 g pk	± 1962 m/s ² pk	
Frequency Range(+5 %)	4 kHz	4 kHz	[2]
Frequency Range(+10 %)	5 kHz	5 kHz	[2]
Resonant Frequency	20 kHz	20 kHz	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 1000 g pk	± 9810 m/s ² pk	
Temperature Range	-65 to +900 °F	-54 to +482 °C	
Temperature Response	See Graph	See Graph	[1]
Electrical			
Capacitance(Pin to Pin)	120 pF	120 pF	[1]
Capacitance(Pin to Case)	32 pF	32 pF	[1]
Capacitance(Unbalance Between Pins)	≤ 2 pF	≤ 2 pF	
Insulation Resistance((Pin to Case 70°F)	>10 ⁹ Ohm	>10 ⁹ Ohm	[1]
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	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Inconel	Inconel	
Sealing	Hermetic	Hermetic	
Size (Height x Diameter x Length)	0.75 in x 1.5 in x 1.88 in	19 mm x 38.1 mm x 47.8 mm	[1]
Weight	2.32 oz	65.8 gm	
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin	
Electrical Connection Position	Side	Side	
Mounting	Through Holes (3)	Through Holes (3)	

OPTIONAL VERSIONS

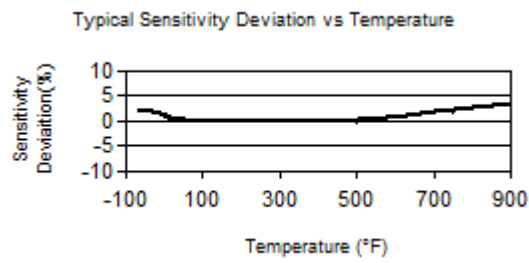
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

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 PS081 for details.

SUPPLIED ACCESSORIES:

Model 081A99 Cap Screw (3)
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (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: LK	Engineer: BAM	Sales: MC	Approved: BAM	Spec Number:
Date: 2/13/2018	Date: 2/13/2018	Date: 2/13/2018	Date: 2/13/2018	63684

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