Model	Number
357	A100

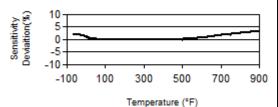
## **CHARGE OUTPUT ACCELEROMETER**

Revision: D ECN #: 46956

Performance	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 5 %)	5.0 pC/g	.510 pC/(m/s²)	
Measurement Range	± 200 g pk	± 1962 m/s² pk	
Frequency Range(+5 %)	4 kHz	4 kHz	[2]
Frequency Range(+10 %)	5 kHz	5 kHz	
Resonant Frequency	20 kHz	20 kHz	
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 1000 g pk	± 9810 m/s² 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 <sup>9</sup> Ohm	>10 <sup>9</sup> Ohm	[1]
Insulation Resistance(Pin to Pin 70°F)	>10 <sup>9</sup> Ohm	>10 <sup>9</sup> Ohm	
Insulation Resistance(Pin to Pin 900°F)	>100 kohm	>100 kohm	
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	
Weight	2.32 oz	65.8 gm	[1]
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin	
Electrical Connection Position	Side	Side	
Mounting	Through Holes (3)	Through Holes (3)	

Typical Sensitivity Deviation vs Temperature





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.

## 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)

Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
Date: 8/8/2017	Date: 8/8/2017	Date: 8/8/2017	Date: 8/8/2017	63684



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