

Model Number  
357C71

# CHARGE OUTPUT ACCELEROMETER

Revision: E  
ECN #: 35386

## Performance

	ENGLISH	SI
Sensitivity(± 5 %)	10 pC/g	1.02 pC/(m/s <sup>2</sup> )
Measurement Range	± 1000 g pk	± 9810 m/s <sup>2</sup> pk
Frequency Range(± 5 %)	4 KHz	4 KHz
Resonant Frequency	≥ 25 KHz	≥ 25 KHz
Non-Linearity	≤ 1 %	≤ 1 %
Transverse Sensitivity	≤ 5 %	≤ 5 %

## Environmental

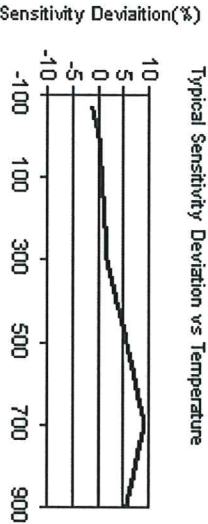
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s <sup>2</sup> pk
Temperature Response	See Graph	See Graph
Temperature Response	See Graph	See Graph
Temperature Response	See Graph	See Graph
Base Strain Sensitivity	0.033 g/µe	0.32 (m/s <sup>2</sup> )/µe
Radiation Exposure Limit(Integrated Neutron Flux)	1 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

## Electrical

Capacitance(Pin to Pin)	525 pF	525 pF
Capacitance(Pin to Case)	26 pF	26 pF
Capacitance(Unbalance Between Pins)	≤ 2 pF	≤ 2 pF
Insulation Resistance((Pin to Case 70°F)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm
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
Output Polarity	Differential	Differential

## Physical

Sensing Element	Ceramic	Ceramic
Sealing	Hermetic	Hermetic
Size (Height x Diameter)	1.0 in x 0.75 in	25.4 mm x 19 mm
Weight	2.6 oz	75 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)



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.

EX - Hazardous Area Approval- contact factory for specific approvals	
Hazardous Area Approval Ex Ia IIC T4, -54°C≤Tas≤135°C,	Ex Ia IIC T4, -54°C≤Tas≤135°C, II 1 G
Hazardous Area Approval Ex Ia IIC T1, -54°C≤Tas≤450°C,	Ex Ia IIC T1, -54°C≤Tas≤450°C, II 1 G
Hazardous Area Approval Ex nL IIC T4, -54°C≤Tas≤135°C,	Ex nL IIC T4, -54°C≤Tas≤135°C, II 3 G
Hazardous Area Approval Ex nL IIC T1, -54°C≤Tas≤450°C,	Ex nL IIC T1, -54°C≤Tas≤450°C, II 3 G

## 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).

Entered: <i>hemu</i>	Engineer: <i>Sud</i>	Sales: <i>Pudra</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>3/3/11</i>	Date: <i>3/3/11</i>	Date: <i>3/3/11</i>	Date: <i>3/3/11</i>	33013



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