

Model Number

357C71

CHARGE OUTPUT ACCELEROMETER

Revision: F

ECN #: 55874

Performance

Sensitivity(± 5 %)

Measurement Range

Frequency Range(± 5 %)

Resonant Frequency

Non-Linearity

Transverse Sensitivity

Environmental

Overload Limit(Shock)

Temperature Range

Temperature Range

Temperature Response

Base Strain Sensitivity

Radiation Exposure Limit(Integrated Neutron Flux)

Radiation Exposure Limit(Integrated Gamma Flux)

Electrical

Capacitance(Pin to Pin)

Capacitance(Pin to Case)

Capacitance(Unbalance Between Pins)

Insulation Resistance((Pin to Case 70°F)

Insulation Resistance(Pin to Pin 70°F)

Insulation Resistance(Pin to Pin 900°F)

Output Polarity

Physical

Sensing Element

Sealing

Size (Height x Diameter)

Weight

Electrical Connector

Electrical Connection Position

Mounting

ENGLISH

10 pC/g

± 1,000 g pk

4 kHz

≥ 25 kHz

≤ 1 %

≤ 5 %

± 2,000 g pk

-65 to +900 °F

-65 to +900 °F

See Graph

0.033 g/με

1 E10 N/cm²

1 E8 rad

1 E8 rad

600 pF

26 pF

≤ 2 pF

> 10⁸ Ohm

> 10⁹ Ohm

> 100 kohm

Differential

Ceramic

Hermetic

1.0 in x 0.75 in

2.6 oz

7/16-27 2-Pin

Side

Through Holes (3)

SI

1.02 pC/(m/s²)

± 9,810 m/s² pk

4 kHz

≥ 25 kHz

≤ 1 %

≤ 5 %

± 19,620 m/s² pk

-54 to +482 °C

-54 to +482 °C

See Graph

0.32 (m/s²)/με

1 E10 N/cm²

1 E8 rad

1 E8 rad

600 pF

26 pF

≤ 2 pF

> 10⁸ Ohm

> 10⁹ Ohm

> 100 kohm

Differential

Ceramic

Hermetic

25.4 mm x 19 mm

75 gm

7/16-27 2-Pin

Side

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.

EX - Hazardous Area Approval- contact factory for specific approvals

Hazardous Area Approval

Hazardous Area Approval

Hazardous Area Approval

Ex ia IIC T4, -54°C ≤ Ta ≤ 135°C, II 1 G

Ex ia IIC T1, -54°C ≤ Ta ≤ 450 °C, II 1 G

Ex nL IIC T4, -54°C ≤ Ta ≤ 135°C, II 3 G

Ex nL IIC T1, -54°C ≤ Ta ≤ 450°C, II 3 G

Ex ia IIC T4, -54°C ≤ Ta ≤ 135°C, II 1 G

Ex ia IIC T1, -54°C ≤ Ta ≤ 450 °C, II 1 G

Ex nL IIC T4, -54°C ≤ Ta ≤ 135°C, II 3 G

Ex nL IIC T1, -54°C ≤ Ta ≤ 450°C, II 3 G

CE

UK

CA

Typical Sensitivity Deviation vs Temperature

Sensitivity Deviation(%)

Temperature (°F)

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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NOTES:

[1]Low frequency response is determined by external signal conditioning electronics.

[2]Zero-based, least-squares, straight line method.

[3]Transverse sensitivity is typically ≤ 3%.

[4]Typical.

[5]See PCB Declaration of Conformance PS158 for details.

SUPPLIED ACCESSORIES:

Model 081A99 Cap Screw (3)

Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).

Entered: ND

Engineer: MA

Sales: KK

Approved: JS

Spec Number:

Date: 09/25/2025

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