

|   | ENGLISH                          | SI                               |     |
|---|----------------------------------|----------------------------------|-----|
| <b>Performance</b>                                |                                  |                                  |     |
| Sensitivity(± 5 %)                                | 10 pC/g                          | 1.02 pC/(m/s <sup>2</sup> )      |     |
| Measurement Range                                 | ± 200 g pk                       | ± 1,962 m/s <sup>2</sup> pk      |     |
| Frequency Range(± 5 %)                            | 2.8 kHz                          | 2.8 kHz                          | [1] |
| Frequency Range(+ 10 %)                           | 3.7 kHz                          | 3.7 kHz                          | [1] |
| Resonant Frequency                                | ≥ 17 kHz                         | ≥ 17 kHz                         |     |
| Non-Linearity                                     | ≤ 1 %                            | ≤ 1 %                            | [2] |
| Transverse Sensitivity                            | ≤ 5 %                            | ≤ 5 %                            | [3] |
| <b>Environmental</b>                              |                                  |                                  |     |
| Overload Limit(Shock)                             | ± 5,000 g pk                     | ± 49,050 m/s <sup>2</sup> pk     |     |
| Temperature Range                                 | -65 to +1200 °F                  | -54 to +650 °C                   | [4] |
| Temperature Range                                 | -165 to +1300 °F                 | -109 to +704 °C                  | [5] |
| Temperature Response                              | See Graph                        | See Graph                        | [6] |
| Base Strain Sensitivity                           | 0.033 g/µε                       | 0.32 (m/s <sup>2</sup> )/µε      | [6] |
| 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                         |     |
| Hazardous Area Approval                           | Ex ia IIC T6... T 710°C Ga       | Ex ia IIC T6... T 710°C Ga       |     |
| Hazardous Area Approval                           | IECEX Ex ia IIC T6... T 710°C Ga | IECEX Ex ia IIC T6... T 710°C Ga |     |
| <b>Electrical</b>                                 |                                  |                                  |     |
| Capacitance(Pin to Pin)                           | 250 pF                           | 250 pF                           | [6] |
| Capacitance(Pin to Case)                          | 110 pF                           | 110 pF                           | [6] |
| 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            | [6] |
| Insulation Resistance(Pin to Pin 70° F)           | > 10 <sup>9</sup> Ohm            | > 10 <sup>9</sup> Ohm            |     |
| Output Polarity                                   | Differential                     | Differential                     |     |
| <b>Physical</b>                                   |                                  |                                  |     |
| Sensing Element                                   | UHT-12™                          | UHT-12™                          |     |
| Sensing Geometry                                  | Shear                            | Shear                            |     |
| Housing Material                                  | Inconel                          | Inconel                          |     |
| Sealing   | Hermetic                         | Hermetic                         |     |
| Size (Height x Length x Width)                    | .787 in x 1.465 in x 1.456 in    | 20 mm x 37 mm x 37 mm            |     |
| Weight(without cable)                             | 6.3 oz                           | 180 gm                           | [6] |
| Electrical Connector                              | 7/16-27 2-Pin                    | 7/16-27 2-Pin                    |     |
| Electrical Connection Position                    | Side                             | Side                             |     |
| Mounting  | Through Holes (4)                | Through Holes (4)                |     |
| Cable Length                                      | 10 ft                            | 3.05 m                           |     |
| Cable Type  | MI Hardline Cable                | MI Hardline Cable                |     |

**OPTIONAL VERSIONS**

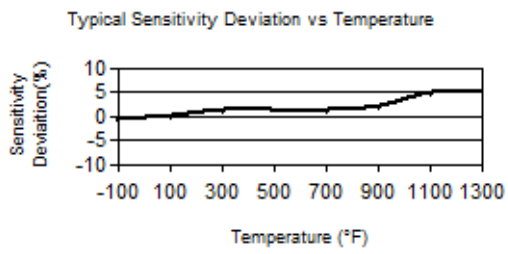
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

[1] 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] Continuous  
 [5] Extreme  
 [6] Typical.  
 [7] See PCB Declaration of Conformance PS122 for details.

**SUPPLIED ACCESSORIES:**

Model 081A115 M6 x 1 x 25 mm long (4)  
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).



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.  
 ICP® is a registered trademark of PCB Piezotronics, Inc.

|                  |                  |                  |                  |              |
|------------------|------------------|------------------|------------------|--------------|
| Entered: LK      | Engineer: NJF    | Sales: EGY       | Approved: NJF    | Spec Number: |
| Date: 01/08/2021 | Date: 01/08/2021 | Date: 01/08/2021 | Date: 01/08/2021 | 57531        |

**PCB PIEZOTRONICS**

3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001  
 Fax: 716-684-0987  
 E-Mail: info@pcb.com