

|  | ENGLISH             | SI                               |     |
|--|---------------------|----------------------------------|-----|
| <b>Performance</b>                     |                     |                                  |     |
| Measurement Range(for ±5V output)      | 200 psi             | 1379 kPa                         |     |
| Useful Overrange(for ± 10V output)     | 400 psi             | 2758 kPa                         | [2] |
| Sensitivity(± 5 mV/psi)                | 25 mV/psi           | 3.6 mV/kPa                       |     |
| Maximum Pressure(static)               | 1 kpsi              | 6895 kPa                         |     |
| Resolution                             | 1 mpsi              | 0.007 kPa                        | [1] |
| Resonant Frequency                     | ≥ 500 kHz           | ≥ 500 kHz                        |     |
| Rise Time(Reflected)                   | ≤ 1.0 μ sec         | ≤ 1.0 μ sec                      |     |
| Low Frequency Response(-5 %)           | 0.5 Hz              | 0.5 Hz                           |     |
| Non-Linearity                          | ≤ 1.0 % FS          | ≤ 1.0 % FS                       | [3] |
| <b>Environmental</b>                   |                     |                                  |     |
| Acceleration Sensitivity               | ≤ 0.002 psi/g       | ≤ 0.0014 kPa/(m/s <sup>2</sup> ) |     |
| Temperature Range(Operating)           | -100 to +275 °F     | -73 to +135 °C                   |     |
| Temperature Coefficient of Sensitivity | ≤ 0.03 %/°F         | ≤ 0.054 %/°C                     | [1] |
| Maximum Flash Temperature              | 3000 °F             | 1650 °C                          |     |
| Maximum Shock                          | 20,000 g pk         | 196,000 m/s <sup>2</sup> pk      |     |
| <b>Electrical</b>                      |                     |                                  |     |
| Output Polarity(Positive Pressure)     | Positive            | Positive                         |     |
| Discharge Time Constant(at room temp)  | ≥ 1.0 sec           | ≥ 1.0 sec                        |     |
| Excitation Voltage                     | 20 to 30 VDC        | 20 to 30 VDC                     |     |
| Constant Current Excitation            | 2 to 20 mA          | 2 to 20 mA                       |     |
| Output Impedance                       | <100 ohm            | <100 ohm                         |     |
| Output Bias Voltage                    | 8 to 14 VDC         | 8 to 14 VDC                      |     |
| Electrical Isolation                   | 10 <sup>8</sup> ohm | 10 <sup>8</sup> ohm              |     |
| <b>Physical</b>                        |                     |                                  |     |
| Sensing Geometry                       | Compression         | Compression                      |     |
| Sensing Element                        | Quartz              | Quartz                           |     |
| Housing Material                       | Stainless Steel     | Stainless Steel                  |     |
| Diaphragm                              | Invar               | Invar                            |     |
| Sealing                                | Welded Hermetic     | Welded Hermetic                  |     |
| Electrical Connector                   | 10-32 Coaxial Jack  | 10-32 Coaxial Jack               |     |
| Weight                                 | 0.41 oz             | 11.6 gm                          |     |

**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.

**CA** - Ablative Coating

**H** - Hermetic Seal  
 Sealing                                      Welded Hermetic                                      Welded Hermetic

**M** - Metric Mount  
 Supplied Accessory : Model 065A40 Seal ring 0.435" OD x 0.397" ID x 0.030" thk brass (3) replaces Model 065A03

**N** - Negative Output Polarity

**S** - Stainless Steel Diaphragm  
 Diaphragm                                      316L Stainless Steel                                      316L Stainless Steel

**W** - Water Resistant Cable

**NOTES:**  
 [1] Typical.  
 [2] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.  
 [3] Zero-based, least-squares, straight line method.  
 [4] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)

|                        |                       |                       |                       |              |
|------------------------|-----------------------|-----------------------|-----------------------|--------------|
| Entered: <i>YPM/11</i> | Engineer: <i>NGK</i>  | Sales: <i>FWM</i>     | Approved: <i>EB</i>   | Spec Number: |
| Date: <i>12/22/10</i>  | Date: <i>12/22/10</i> | Date: <i>12/22/10</i> | Date: <i>12/22/10</i> | <b>40738</b> |



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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