

|                               |                              |                             |
|-------------------------------|------------------------------|-----------------------------|
| Model Number<br><b>378C13</b> | <b>ICP MICROPHONE SYSTEM</b> | Revision: A<br>ECN #: 47338 |
|-------------------------------|------------------------------|-----------------------------|

|  | <u>ENGLISH</u>        | <u>SI</u>            |        |
|--|-----------------------|----------------------|--------|
| <b>Performance</b>   |                       |                      |        |
| Nominal Microphone Diameter  | 1/2"                  | 1/2"                 |        |
| Frequency Response Characteristic                                    | Pressure              | Pressure             |        |
| Sensitivity  | 12.6 mV/Pa            | 12.6 mV/Pa           | [3]    |
| Sensitivity(± 2 dB)  | -38 dB re 1 V/Pa      | -38 dB re 1 V/Pa     | [3]    |
| Frequency Range(± 2 dB)  | 3.15 to 20,000 Hz     | 3.15 to 20,000 Hz    |        |
| Frequency Range(± 1 dB)  | 4 to 12,500 Hz        | 4 to 12,500 Hz       |        |
| Lower Limiting Frequency(-3 dB)                                      | 1.0 to 2.4 Hz         | 1.0 to 2.4 Hz        |        |
| Inherent Noise   | 22 dB(A) re 20<br>µPa | 22 dB(A) re 20 µPa   | [2]    |
| Dynamic Range(3% Distortion Limit)                                   | 150 dB re 20 µPa      | 150 dB re 20 µPa     | [2]    |
| TEDS Compliant   | Yes                   | Yes                  | [4]    |
| <b>Environmental</b>   |                       |                      |        |
| Temperature Range(Operating)   | -40 to +176 °F        | -40 to +80 °C        |        |
| Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C)) | 0.004 dB/°F           | 0.008 dB/°C          | [2][3] |
| Static Pressure Coefficient  | -0.006 dB/kPa         | -0.006 dB/kPa        | [2][3] |
| Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)       | ± 0.001               | ± 0.001              | [3]    |
| Influence of Axial Vibration(0.1g (1 m/s <sup>2</sup> ))             | 66 dB re 20 µPa       | 66 dB re 20 µPa      | [2]    |
| <b>Electrical</b>  |                       |                      |        |
| Polarization Voltage   | 0 V                   | 0 V                  | [1]    |
| Excitation Voltage   | 20 to 30 VDC          | 20 to 30 VDC         |        |
| Constant Current Excitation  | 2 to 20 mA            | 2 to 20 mA           |        |
| Output Bias Voltage  | 10 to 14 VDC          | 10 to 14 VDC         |        |
| Maximum Output Voltage   | ± 7 Vpk               | ± 7 Vpk              |        |
| Output Impedance   | <50 Ohm               | <50 Ohm              |        |
| <b>Physical</b>  |                       |                      |        |
| Housing Material   | Stainless Alloy       | Stainless Alloy      |        |
| Venting  | Rear                  | Rear                 | [5]    |
| Electrical Connector   | BNC Jack              | BNC Jack             |        |
| Mounting Thread(Grid)  | 0.5 - 60 UNS          | 0.5 - 60 UNS         |        |
| Size (Diameter x Height)(with grid)                                  | 0.52 in x 3.50 in     | 13.2 mm x 88.9<br>mm |        |
| Size (Diameter x Height)(without grid)                               | 0.50 in x 3.46 in     | 12.7 x 87.9 mm       |        |
| Weight   | 1.58 oz               | 44.5 gm              | [2]    |

**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] Prepolarized  
 [2] Typical.  
 [3] re 250 Hz  
 [4] TEDS Capable Digital Communication, compliant with IEEE 1451.4  
 [5] Venting through Preamp.  
 [6] See PCB Declaration of Conformance PS064 for details.

**SUPPLIED ACCESSORIES:**  
 Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)

|                  |                  |                  |                  |              |
|------------------|------------------|------------------|------------------|--------------|
| Entered: LK      | Engineer: MT     | Sales: MV        | Approved: MT     | Spec Number: |
| Date: 10/17/2017 | Date: 10/17/2017 | Date: 10/17/2017 | Date: 10/17/2017 | <b>66356</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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