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| Model Number 377A12 | PRECISION CONDENSER MICROPHONE | Revision: F ECN #: 47338 |
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| | <u>ENGLISH</u> | <u>SI</u> | |
|--|------------------------|------------------------|--------|
| Performance | | | |
| Nominal Microphone Diameter | 1/4" | 1/4" | |
| Frequency Response Characteristic | Pressure | Pressure | |
| Open Circuit Sensitivity | 0.25 mV/Pa | 0.25 mV/Pa | [3] |
| Open Circuit Sensitivity(± 3 dB) | -72 dB re 1 V/Pa | -72 dB re 1 V/Pa | [3] |
| Frequency Range(± 2 dB) | 4 to 20,000 Hz | 4 to 20,000 Hz | |
| Lower Limiting Frequency(-3 dB) | 0.5 to 3.0 Hz | 0.5 to 3.0 Hz | |
| Resonant Frequency(90° Phase Shift) | 48.9 kHz | 48.9 kHz | [1] |
| Inherent Noise | <60 dB(A) re 20 µPa | <60 dB(A) re 20 µPa | |
| Dynamic Range(3% Distortion Limit) | 182 dB re 20 µPa | 182 dB re 20 µPa | [1] |
| Maximum Sound Pressure Level(Peak) | >194 dB re 20 µPa | >194 dB re 20 µPa | |
| Environmental | | | |
| Temperature Range(Operating) | -40 to +248 °F | -40 to +120 °C | |
| Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C)) | 0.004 dB/°F | 0.007 dB/°C | [1][3] |
| Static Pressure Coefficient | -0.001 dB/kPa | -0.001 dB/kPa | [1][3] |
| Humidity Coefficient of Sensitivity(0 to 100%, non-condensing) | ± 0.001 dB/%RH | ± 0.001 dB/%RH | [3] |
| Influence of Axial Vibration(0.1g (1 m/s ²)) | 72 dB re 20 µPa | 72 dB re 20 µPa | [1] |
| Electrical | | | |
| Capacitance(Polarized) | 4.6 pF | 4.6 pF | [1] |
| Polarization Voltage | 0 V | 0 V | [2] |
| Physical | | | |
| Housing Material | Stainless Alloy | Stainless Alloy | |
| Venting | Rear | Rear | |
| Mounting Thread(Preamplifier) | 0.2244 - 60 UNS | 5.7 mm - 60 UNS | |
| Mounting Thread(Grid) | 0.25 - 60 UNS | 6.35 mm - 60 UNS | |
| Size (Diameter x Height)(with grid) | 0.28 in x 0.41 in | 7.0 mm x 10.4 mm | |
| Size (Diameter x Height)(without grid) | 0.25 in x 0.36 in | 6.4 mm x 9.1 mm | |
| Weight | 0.06 oz | 1.7 gm | [1] |

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] Typical.
 [2] Prepolarized
 [3] re 250 Hz
 [4] See PCB Declaration of Conformance PS167 for details.

SUPPLIED ACCESSORIES:

Model ACS-20 Calibration of Precision Condensator Microphones (1)

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|------------------|------------------|------------------|------------------|--------------|
| 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 | 34933 |



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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