

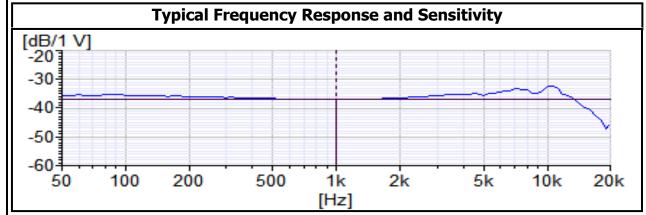
POM-2738P-C33-R Omni-Directional Microphone

3541 Stop Eight Road • Dayton, Ohio 45414



Product Overview

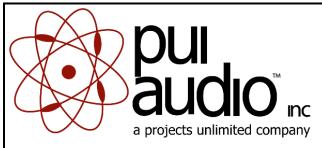
- 6mm overall diameter and 2.7mm height with pin terminals
- -38 dB sensitivity for use in most environments
- Wide 2 to 10 VDC operating voltage and 50-16,000 Hz frequency response
- >60 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response
- Internal 33 pF capacitor filters out GSM TDMA noise





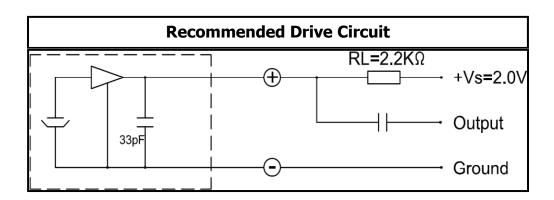


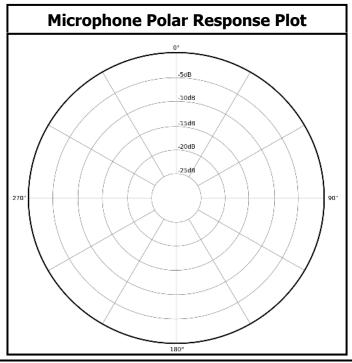




POM-2738P-C33-R Omni-Directional Microphone

| Mechanical and Environment Testing | | | |
|------------------------------------|--|--|--|
| Test Description | Test Condition | | |
| High Temperature | 70°C with random humidity for 200 hours | | |
| Low Temperature | -40°C with random humidity for 200 hours | | |
| Humidity | 40°C with 90% relative humidity for 200 hours | | |
| Vibration | 3 mm movement for 3 minutes in each of 3 axis | | |
| Drop Test | 70 cm free fall onto 20 mm thick board, two directions | | |
| Temperature Cycle Test | -10°C to 50°C, 5 cycles | | |





| SPECIFICATIONS | | | | |
|------------------------------|---------|------|--|--|
| PARAMETERS | VALUES | UNIT | | |
| DIRECTIVITY | OMINI | - | | |
| SENSITIVTY | -38 ± 3 | dB | | |
| STANDARD OPERATING VOLTAGE | 2 | Vdc | | |
| MAX OPERATING VOLTAGE | 10 | Vdc | | |
| CURRENT CONSUMPTION (MAX) | 0.5 | mA | | |
| IMPEDANCE | 2.2 | KOhm | | |
| SIGNAL TO NOISE RATIO (MIN.) | 60 | dB | | |
| TERMINAL | PIN | - | | |
| INTERNAL CAPACITOR | 33 | pF | | |

1. ALL DIMENSIONS ARE IN MILLIMETERS.

3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

WITHOUT NOTICE.

2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL

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| REVISION HISTORY | | | | | |
|------------------|--|-----------|----------|--|--|
| LTR | DESCRIPTION | DATE | APPROVED | | |
| - | RELEASED FROM ENGINEERING | 1/24/2006 | | | |
| Α | ADDED TERMINAL POLARITY | 2/2/2007 | D.F. | | |
| В | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 10/6/2010 | B.R. | | |

Checked by

B.R.

Date

1/24/2006

Designed by

SIZE

Date

1/24/2006

Approved by

E.P.

Microphone

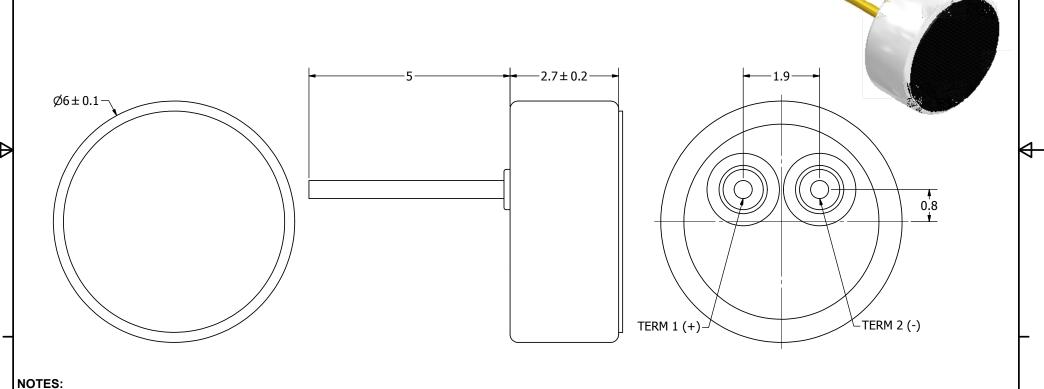
POM-2738P-C33-R

Date

1/24/2006 10/6/2010

Drawn Date

1/1



UNLESS OTHERWISE

SPECIFIED:

DIMENSIONS ARE IN

MILLIMETERS,

TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.

POM-2738P-C33-R.idw