

Excellent Integrated System Limited

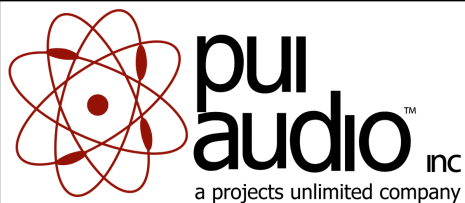
Stocking Distributor

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[PUI Audio, Inc.](#)
[POM-2244L-C33-R](#)

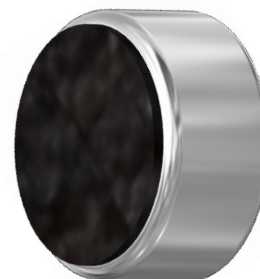
For any questions, you can email us directly:

sales@integrated-circuit.com



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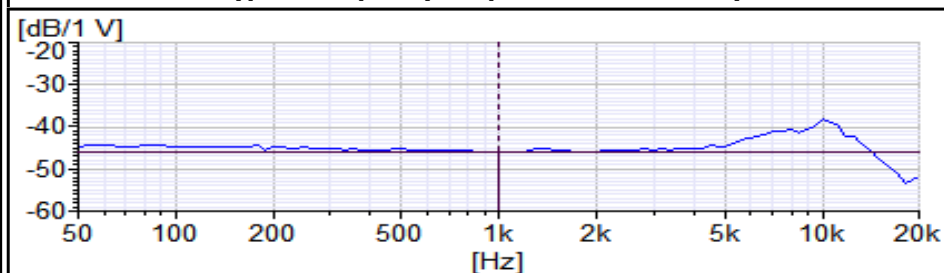
POM-2244L-C33-R Omni-Directional Microphone



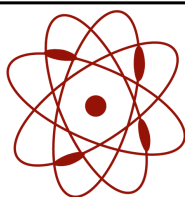
Product Overview

- 6mm overall diameter and 2.2mm height
- -45 dB sensitivity for use in most environments
- Wide 2 to 10 VDC operating voltage and 100-10,000 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

Typical Frequency Response and Sensitivity



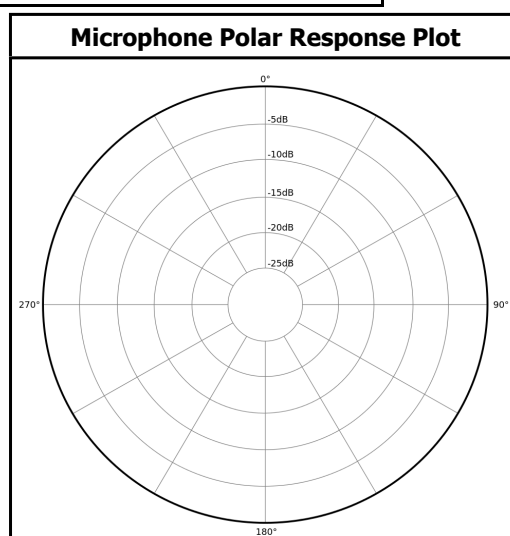
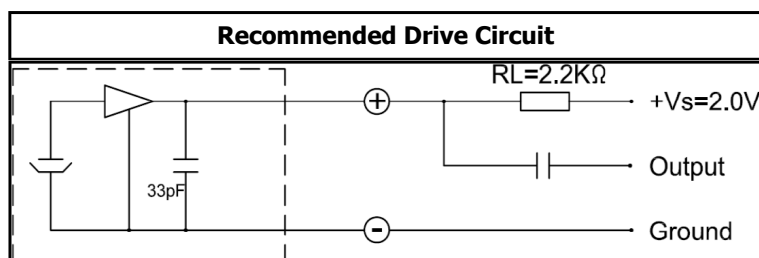
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pui
audio[™] inc
a projects unlimited company

POM-2244L-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

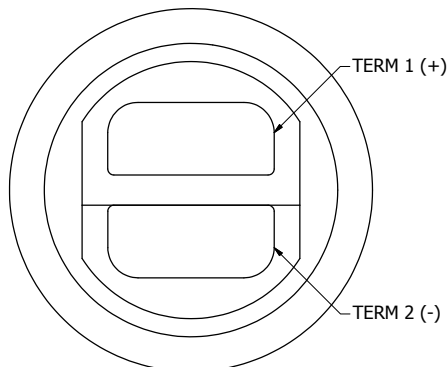
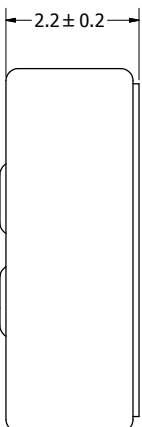
| PARAMETERS | VALUES | UNIT |
|------------------------------|-------------|------|
| DIRECTIVITY | OMINI | - |
| SENSITIVITY | -44 ± 2 | dB |
| STANDARD OPERATING VOLTAGE | 2 | Vdc |
| MAX OPERATING VOLTAGE | 10 | Vdc |
| CURRENT CONSUMPTION (MAX) | 0.2 | mA |
| IMPEDANCE | 2.2 | KOhm |
| SIGNAL TO NOISE RATIO (MIN.) | 60 | dB |
| TERMINAL | SOLDER PADS | - |
| INTERNAL CAPACITOR | 33 | pF |

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REVISION HISTORY



| LTR | DESCRIPTION | DATE | APPROVED |
|-----|--|------------|----------|
| - | RELEASED FROM ENGINEERING | 10/31/2005 | |
| A | REVISED CURRENT CONSUMPTION | 9/25/2006 | B.R. |
| B | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 9/27/2010 | B.R. |

Ø6 ± 0.1



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

| | | | | | | | | | |
|--|------|---|---|------------|-----------------|-------------|-----------|------------|--|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | SIZE | Designed by | Date | Checked by | Date | Approved by | Date | Drawn Date | |
| | | J.A.F. | 10/31/2005 | B.R. | 11/1/2005 | E.P. | 11/1/2005 | 9/27/2010 | |
| | A3 |  |  pui audio inc. a projects unlimited company | | POM-2244L-C33-R | | | | |
| | | | | | Microphone | | | | |
| | | | | | Edition | | | | |
| | | | | | Sheet | | | | |
| POM-2244L-C33-R.idw | | - | | | | | 1 / 1 | | |