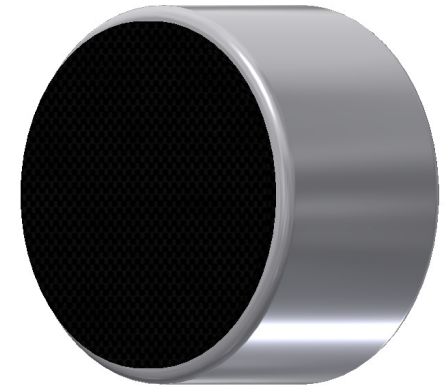


POM-3535L-3-R Omni-Directional Microphone

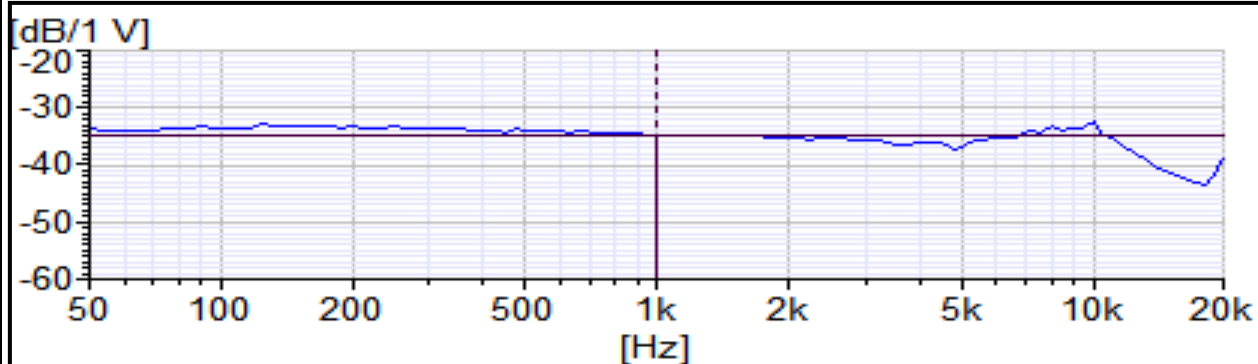


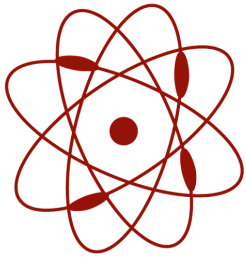
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 6mm overall diameter and 3.5mm height with solder pads
- -35 dB sensitivity for picking up low level sound
- Wide 2 to 10 VDC operating voltage and 50-16,000 Hz frequency response
- >68 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response
- Built-in 33 pf and 10 pf capacitors filter out GSM TDMA noise

Typical Frequency Response and Sensitivity

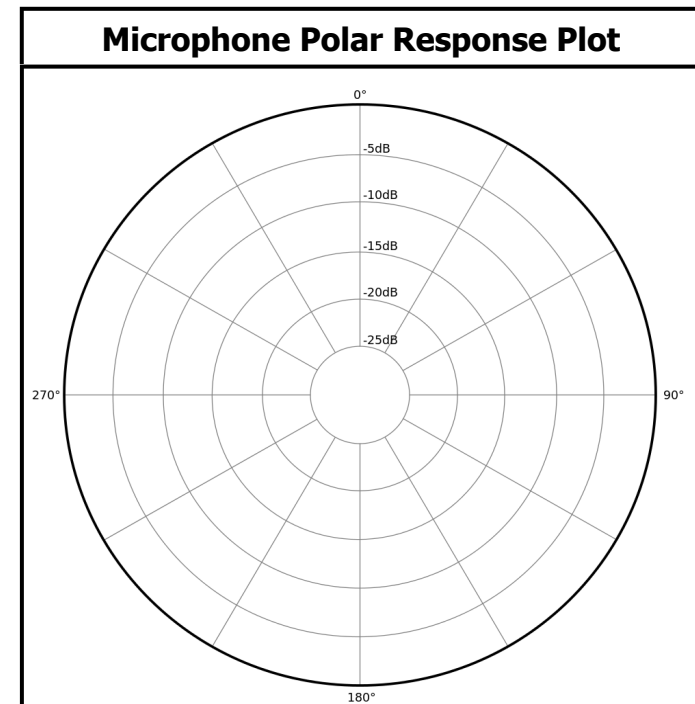
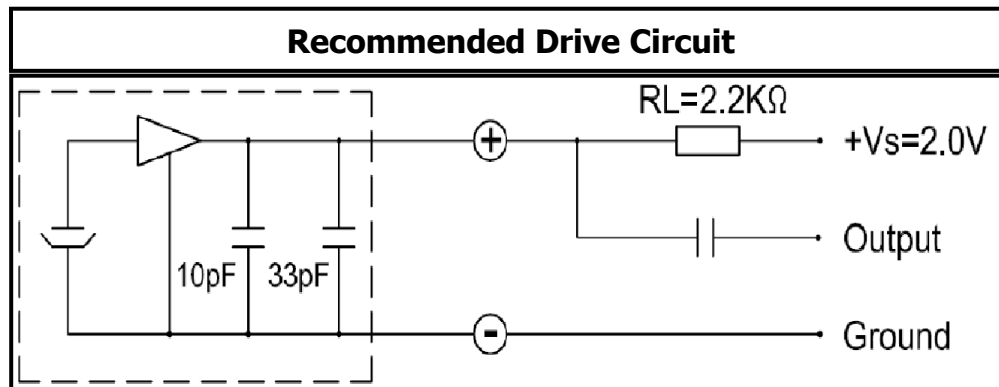




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POM-3535L-3-R Omni-Directional Microphone

| Mechanical and Environment Testing | |
|------------------------------------|--------------------------------------------------------|
| Test Description | Test Condition |
| High Temperature | 70°C with random humidity for 200 hours |
| Low Temperature | -25°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

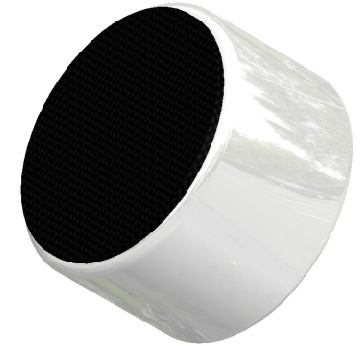
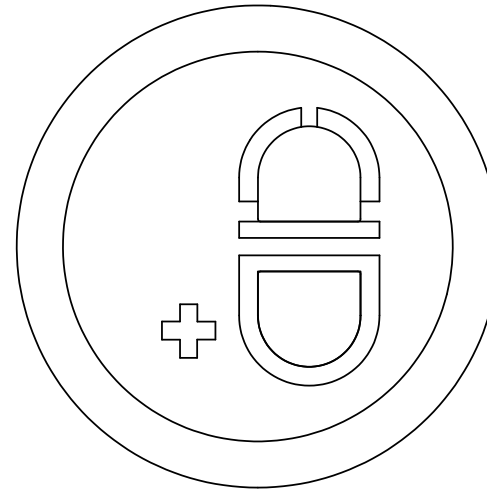
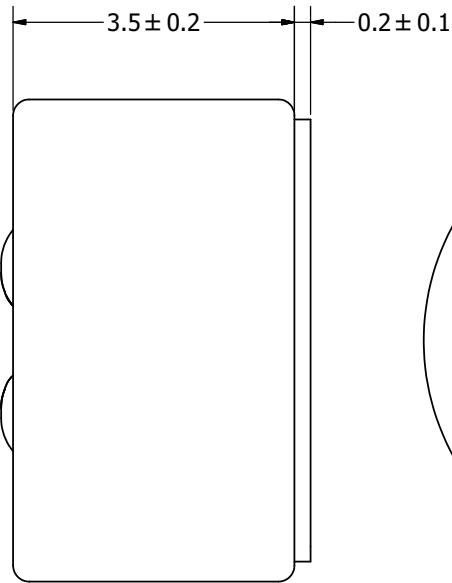
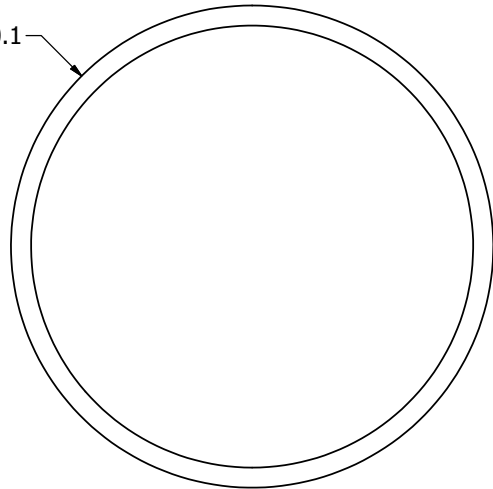
| PARAMETERS | VALUES | UNIT |
|------------------------------|-------------|------|
| DIRECTIVITY | OMINI | - |
| SENSITIVITY | -35 ± 4 | dB |
| STANDARD OPERATING VOLTAGE | 2 | Vdc |
| MAX OPERATING VOLTAGE | 10 | Vdc |
| CURRENT CONSUMPTION (MAX) | 0.5 | mA |
| IMPEDANCE | 2.2 | KOhm |
| SIGNAL TO NOISE RATIO (MIN.) | 68 | dB |
| TERMINAL | SOLDER PADS | - |
| INTERNAL CAPACITOR | 10 & 33 | pF |

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REVISION HISTORY

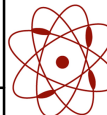
| LTR | DESCRIPTION | DATE | APPROVED |
|-----|------------------------------------------|------------|----------|
| - | RELEASED FROM ENGINEERING | 11/21/2012 | |
| A | REVISED SIGNAL TO NOISE & CAPACITOR | 5/9/2013 | B.R. |
| B | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 7/22/2013 | B.R. |
| C | REVISED SOLDER PAD LAYOUT | 3/18/2014 | M.L. |

Ø6 ± 0.1



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2011/65/EU COMPLIANT.
4. THIS PART IS BACK ELECTRET.

| | | | | | | | | |
|----------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|------------|-------------|------------|------------|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | SIZE A3 | Designed by | Date | Checked by | Date | Approved by | Date | Drawn Date |
| | | B.M. | 11/21/2012 | M.L. | 11/21/2012 | B.R. | 11/21/2012 | 7/22/2013 |
| POM-3535L-3-R.idw | |  pui audio <small>INC</small> <small>a projects unlimited company</small> | | POM-3535L-3-R Microphone | | | Edition | Sheet |
| | | | | | | - | 1 / 1 | |

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