

Description

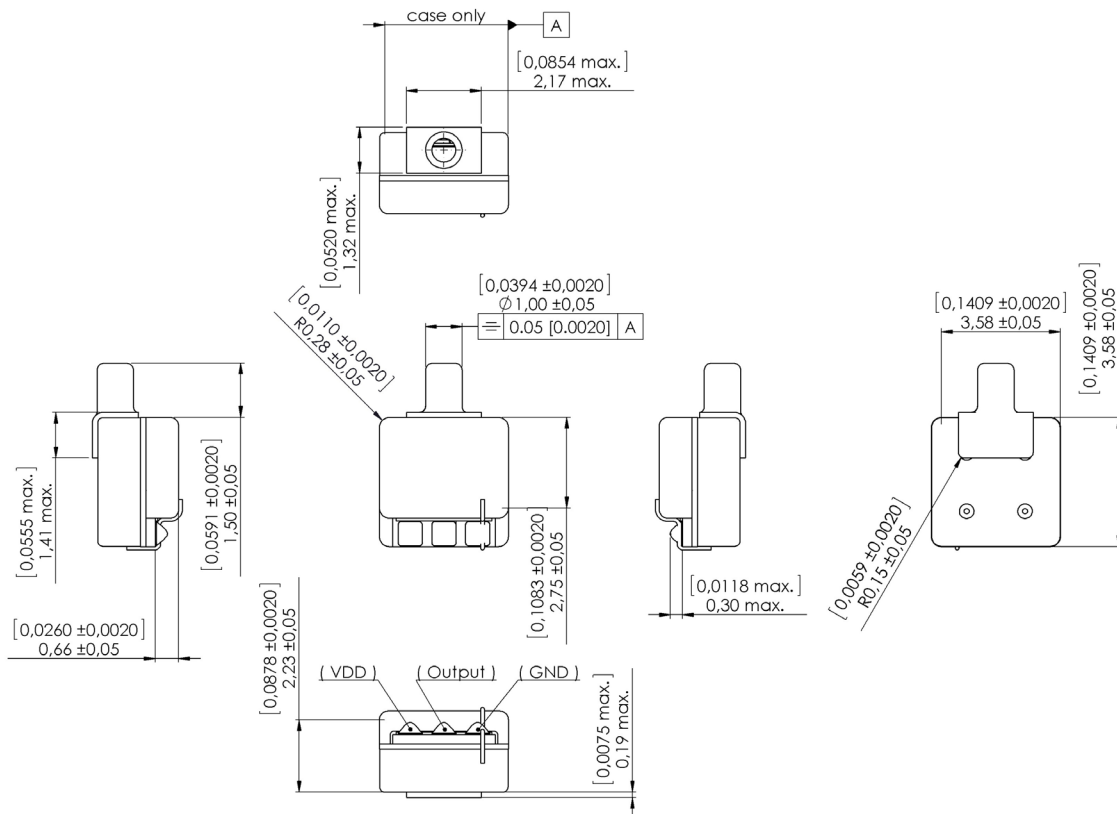
Miniature electret condenser microphone for hearing instruments with integrated amplifier to decrease sensitivity for high frequency spurious signals and an improved ESD protection.



Features

- Low noise CMOS amplifier
- Integrated cellular protection (superior EMI suppression)
- Superior ESD protection

Product drawing - Dimensions in mm [inch]



Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

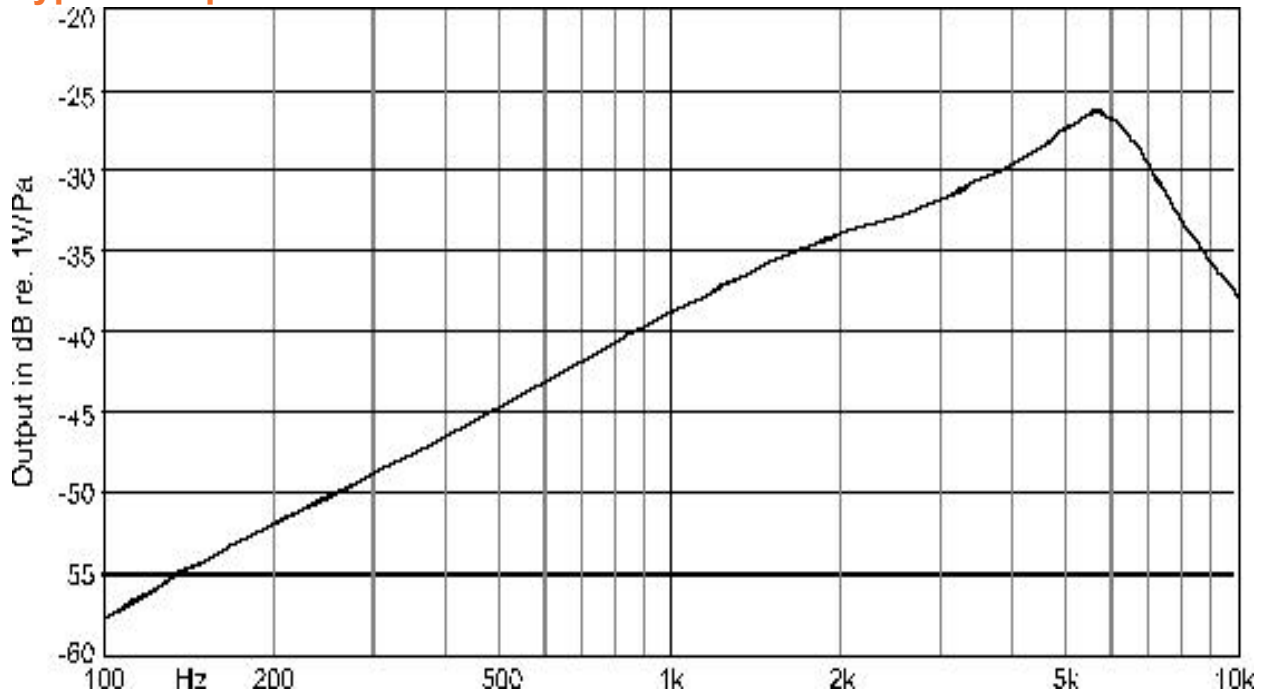
Specifications

All parameters are specified at 1.3V and 1 MOhm // <200pF load impedance, AC coupled with 1μF, unless specified otherwise. Environmental conditions: 23°C (73.4F), 50% RH.

| Parameters | Min | Typ | Max | Unit | Comments | |
|--|-----------|-------|-------|--------|----------|-------------------|
| Sensitivity * | @ 300 Hz | -11.5 | -10 | -8.5 | dB | re. 1 kHz value |
| | @ 1 kHz | -42.5 | -39.5 | -36.5 | dB | re. 1V per Pascal |
| | @ 5.5 kHz | 7 | 12 | 17 | dB | re. 1 kHz value |
| Peak frequency | | 5.5 | | kHz | Approx. | |
| Output noise (A-weighted) | | <-100 | | dB SPL | | |
| Battery voltage range | 0.9 | 1.3 | 5 | VDC | | |
| Battery drain ** | 20 | 35 | 50 | μA | | |
| Output impedance *** | 2 | 4.4 | 6 | kOhm | | |
| Operating temperature range | -17 | 23 | 63 | °C | | |
| Storage temperature range | -40 | | 63 | °C | | |
| ESD protection level: Class 3 according to MIL-STD-750D, test method 1020,2. | | | | | | |
| Apply protection in accordance with IEC 61340-5-1 and 61340-5-2. | | | | | | |
| * Sensitivity change on reducing supply to 0.9 VDC: 3 dB max. | | | | | | |
| ** Battery drain at 0,9 VDC supply voltage: 20 μA typ. | | | | | | |
| *** Output impedance at 0.9 VDC supply: 7.5 kOhm max. | | | | | | |

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Typical response curve



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