

## Description

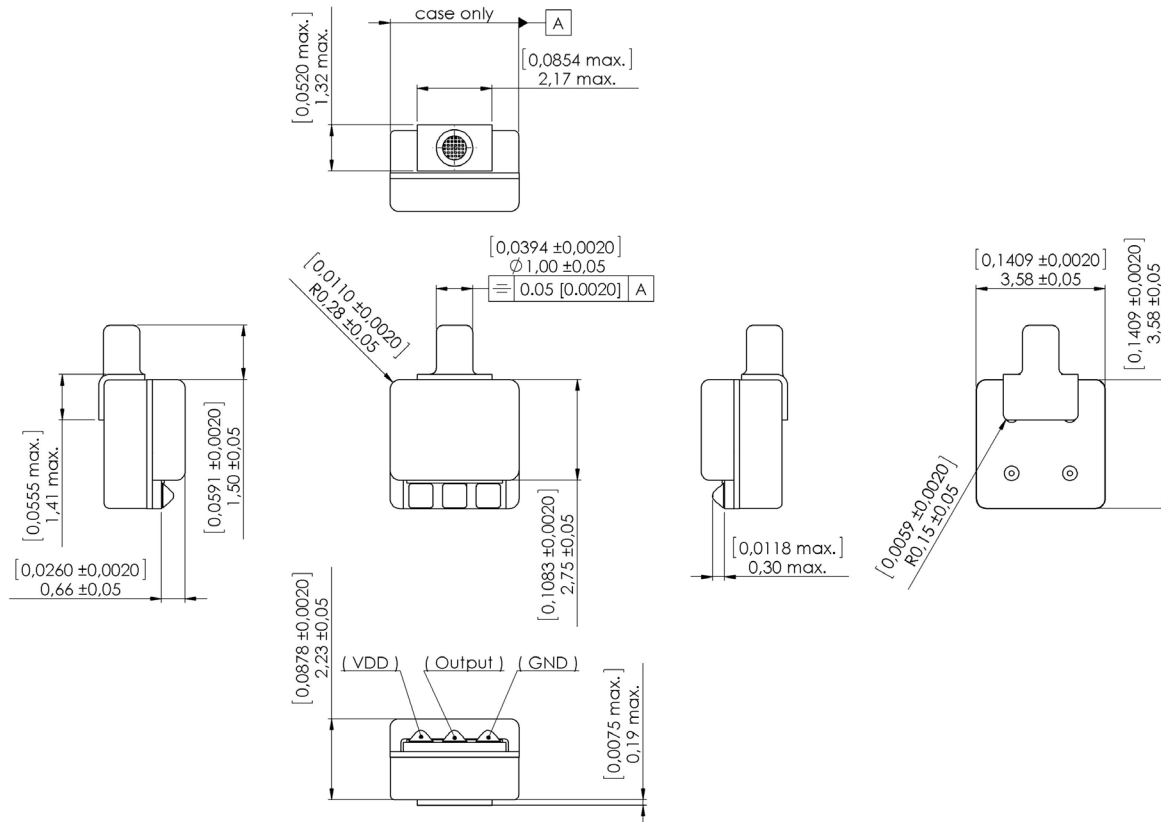
Microphone for hearing instruments provided with a special integrated amplifier to increase the sensitivity. It has a decreased sensitivity for high frequency spurious signals and an improved ESD protection



## 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.

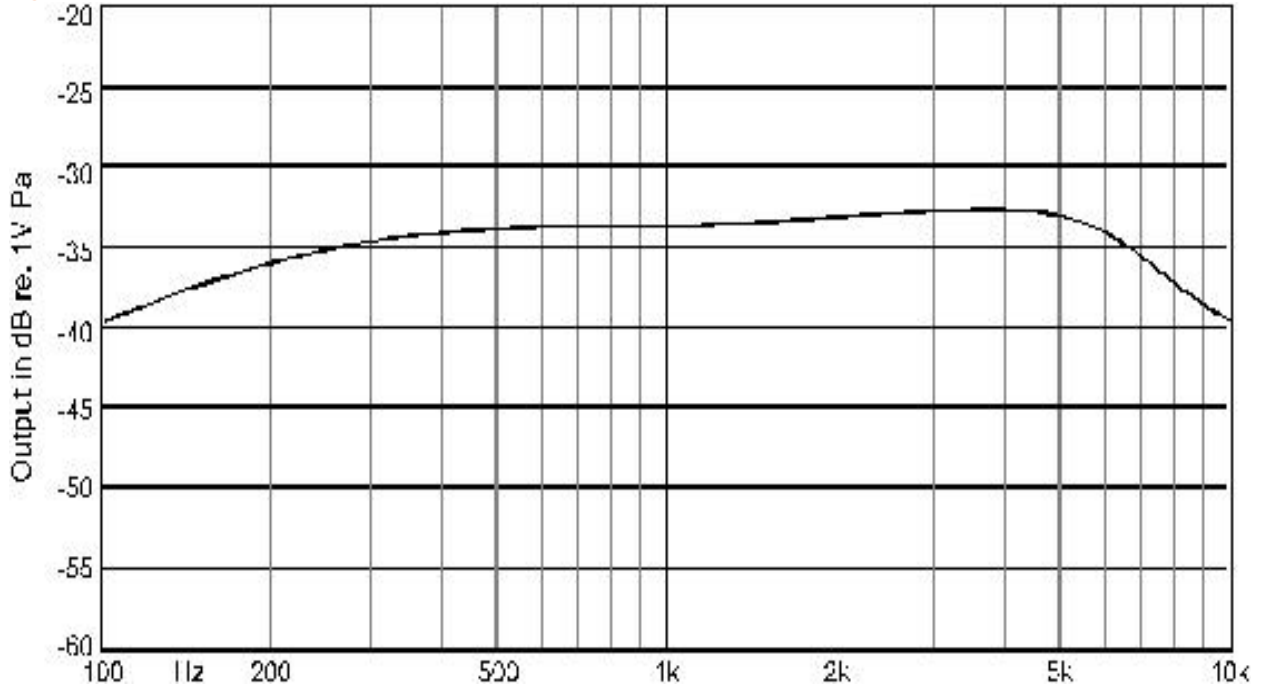
## Specifications

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 *  | @ 100 Hz | -10  | -6.5 | -3     | dB       | re. 1 kHz value   |
|  | @ 1 kHz  | -36  | -33  | -30    | dB       | re. 1V per Pascal |
|  | @ 4 kHz  | -2.5 | 0.5  | 3.5    | dB       | re. 1 kHz value   |
| Peak frequency   |          | -    |      | kHz    |          |                   |
| Equivalent noise (A-weighted)  |          | 25   | 28   | dB SPL |          |                   |
| Battery voltage range  | 0.9      | 1.3  | 5    | VDC    |          |                   |
| Battery drain **   | 20       | 35   | 50   | μA     |          |                   |
| Output impedance ***   | 2        | 3    | 5.5  | 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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