

## Description

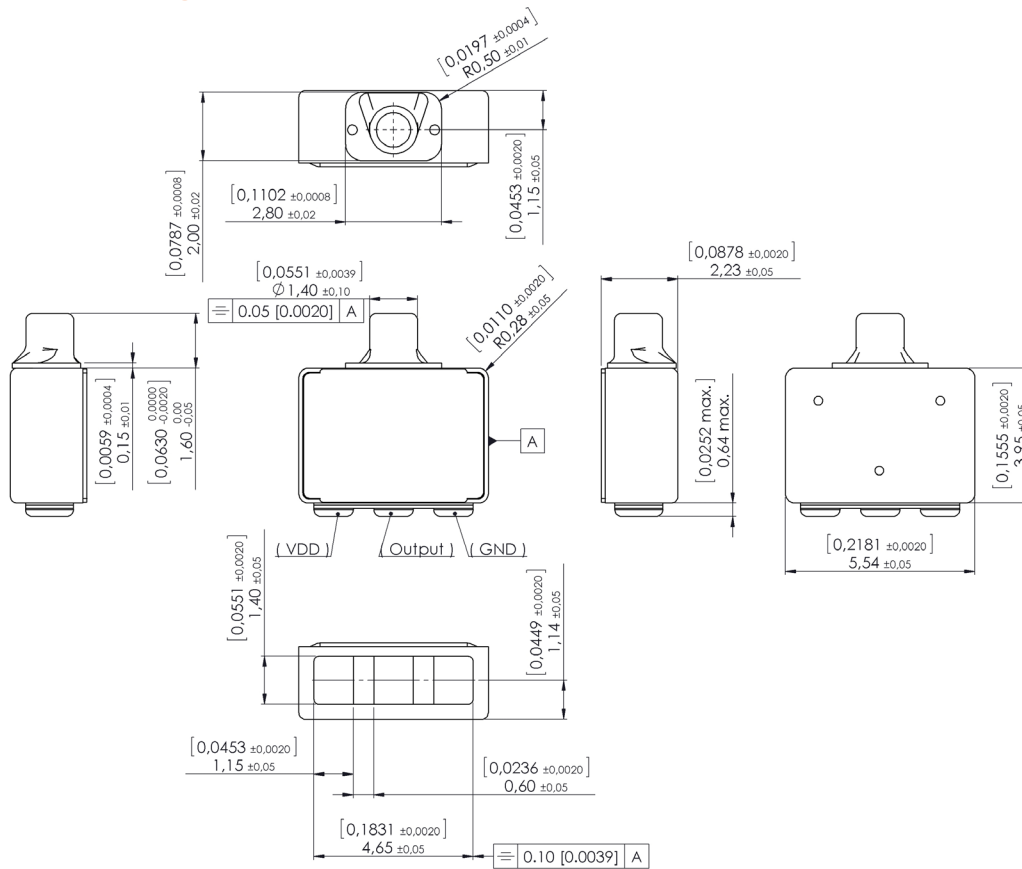
Miniature electret condenser microphone for hearing instruments with integrated capacitors and an integrated amplifier to decrease sensitivity for high frequency spurious signals and an improved ESD protection.



## Features

- Larger case size
- Higher sensitivity application
- Low noise CMOS amplifier
- Integrated cellular protection (EMI suppression)
- Superior ESD protection

## Product drawing - Dimensions in mm [inch]



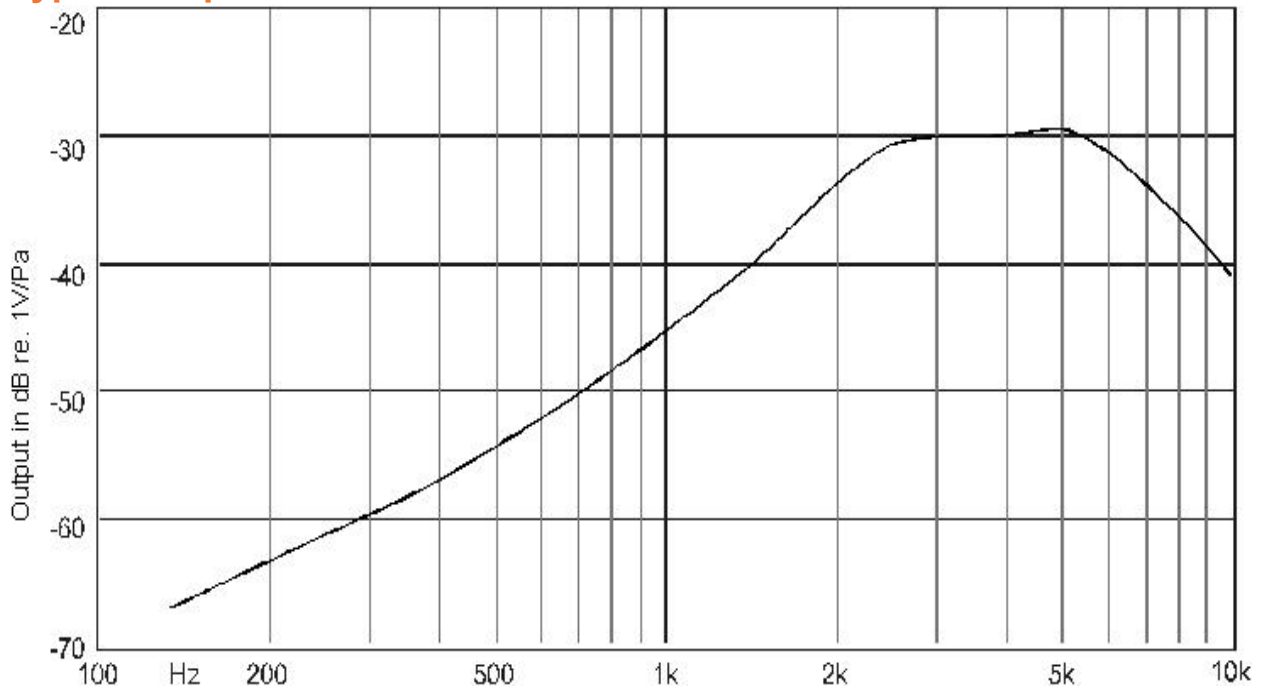
Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

## Specifications

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

Acoustic parameters	Min	Typ	Max	Unit	Comments	
Sensitivity *	@ 1000 Hz	-47	-43	-39	dB	re. 1V per Pascal
	@ 3.5 kHz	-33	-30	-27	dB	re. 1V per Pascal
	@ 5 kHz	-2.5	0.5	3.5	dB	re. 3.5 kHz value
Peak frequency		5		kHz	Approx.	
Output noise (A-weighted)		<-104		dB SPL	re. 1V	
Battery voltage range	0.9		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.						

## Typical response curve



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