

Description

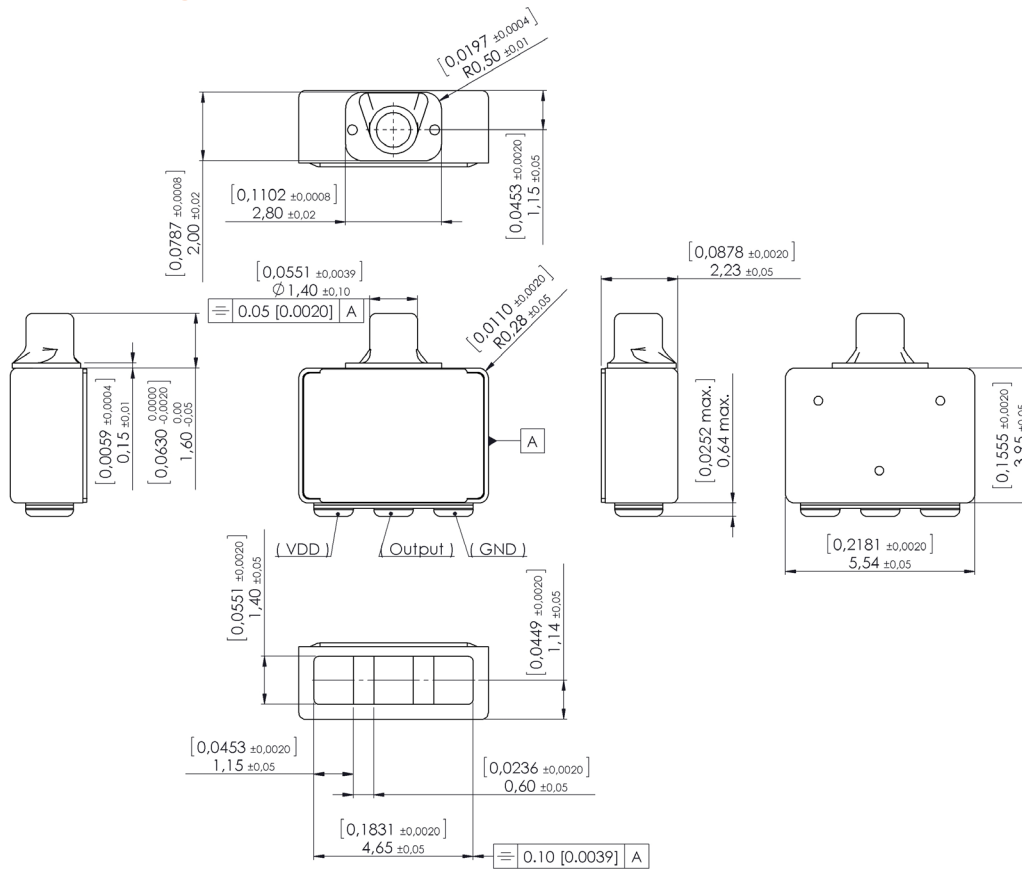
Miniature electret condenser microphone for hearing instruments with integrated capacitors and an integrated amplifier to decrease sensitivity for high frequency spurious signals and an improved ESD protection.



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]



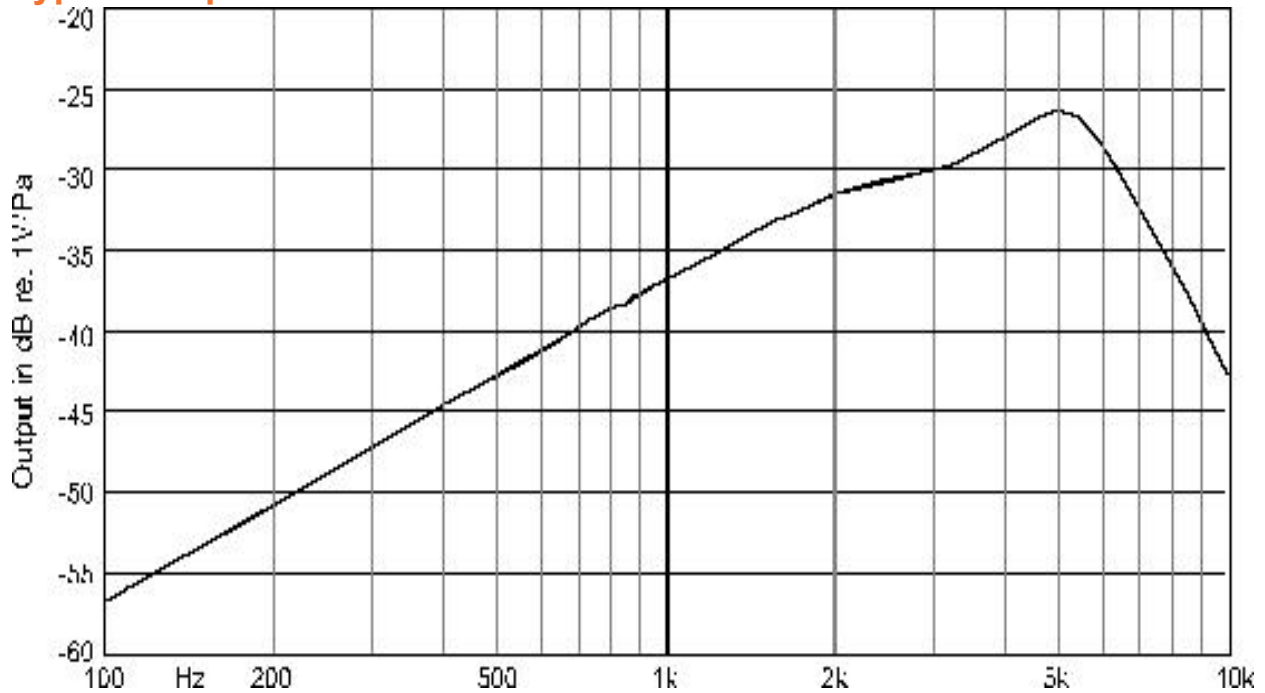
Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

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 *	@ 300 Hz	-12.5	-11	-9.5	dB	re. 1 kHz value
	@ 1 kHz	-40	-37	-34	dB	re. 1V per Pascal
	@ peak	6	11	16	dB	re. 1 kHz value
Peak frequency		4.2		kHz	Approx.	
Output noise (A-weighted)		<-101		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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