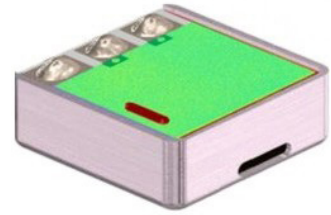


## Description

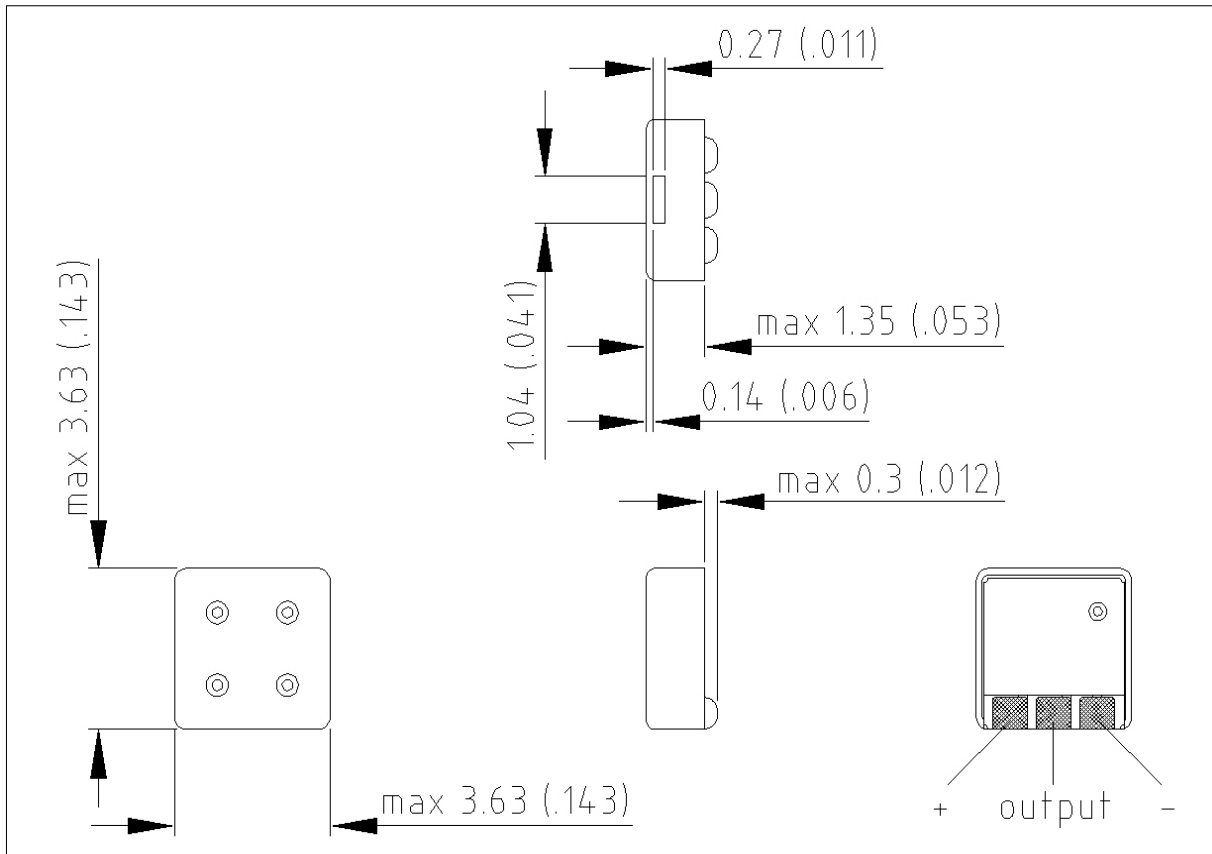
Miniature electret condenser microphone for hearing instruments with integrated capacitors and an integrated amplifier to decrease sensitivity for high frequency spurious signals and an improved ESD protection.



## Features

- Wider bandwidth
- Lower noise
- Better matching stability

## 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.

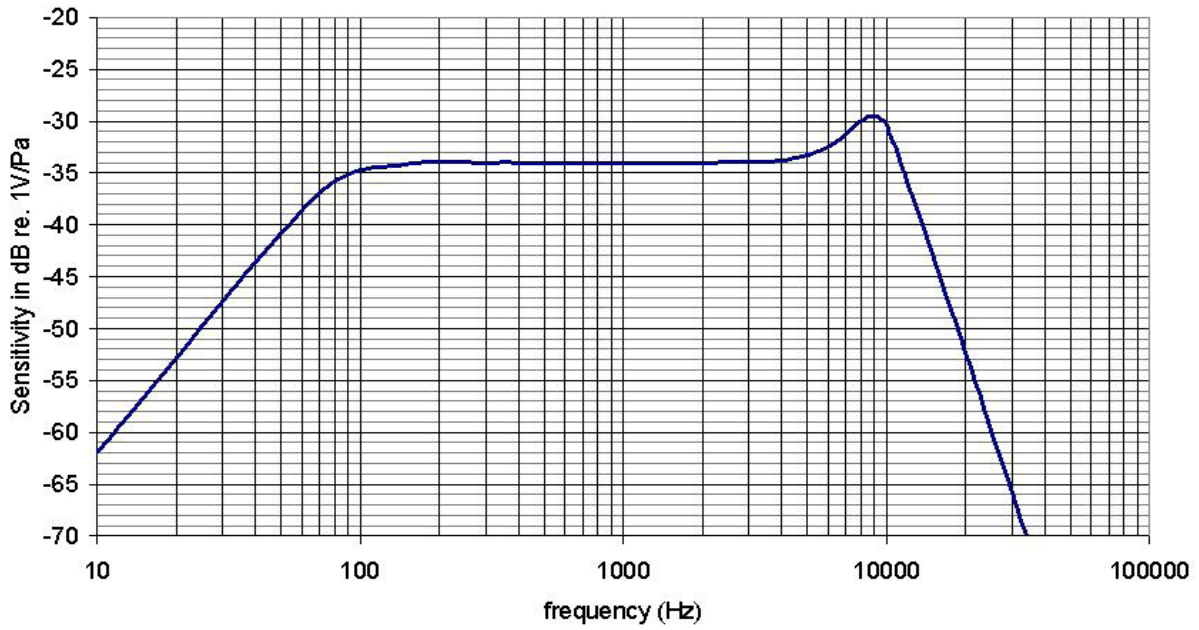
## Specifications

All parameters are specified at 0.9V and 1 MOhm // <200pF load impedance, AC-coupled with 1µF, unless specified otherwise. Environmental conditions: 23°C (73.4F), 50 % RH.

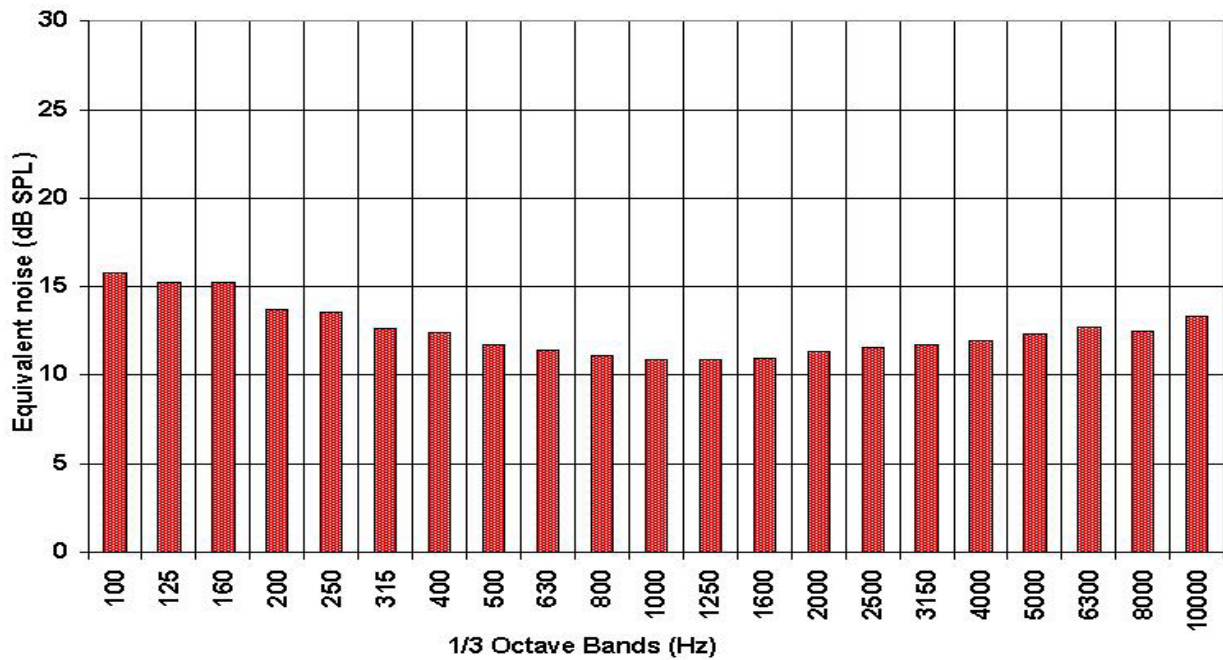
Parameters		Min	Typ	Max	Unit	Comments
Sensitivity *	@ 70 Hz	-5	-3	-1	dB	re. 1 kHz value
	@ 1 kHz	-37	-34	-31	dB	re. 1V per Pascal
	@ 9 kHz	1.5	4.5	7.5	dB	re. 1 kHz value
Peak frequency			9		kHz	Approx.
Equivalent noise (A-weighted)			24.5	27	dB SPL	
Power supply feedthrough			-12	-10	dB	
Battery voltage range		0.8	0.9	5	VDC	
Battery drain		10	17	30	µA	
Output impedance **		2.8	3.8	5.5	kOhm	
Input-referred vibration sensitivity			67		dB SPL/g	1 kHz ref. acc. in axial dir.
Humidity coefficient of sensitivity			0.02		dB/%RH	
Input-referred EMI noise	0.8-0.96 Ghz			30	dB SPL	according SMI 255, E-75 V/m
	1.8-2.0 GHz			30	dB SPL	according SMI 255, E-50 V/m
Operating temperature range		-17	23	63	°C	
Storage temperature range		-40		63	°C	
ESD protection level: Class 2 according to MIL-STD-750D, test method 1020,2. Apply protection in accordance with IEC 61340-5-1 and 61340-5-2.						
Electrical cut-off frequency 5.6 kHz						
* 1 kHz sensitivity at 1.3 VDC supply: -33 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply : 2.9 kOhm typ.						

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## Typical response curve



## Typical 1/3 octave equivalent noise



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