

Description

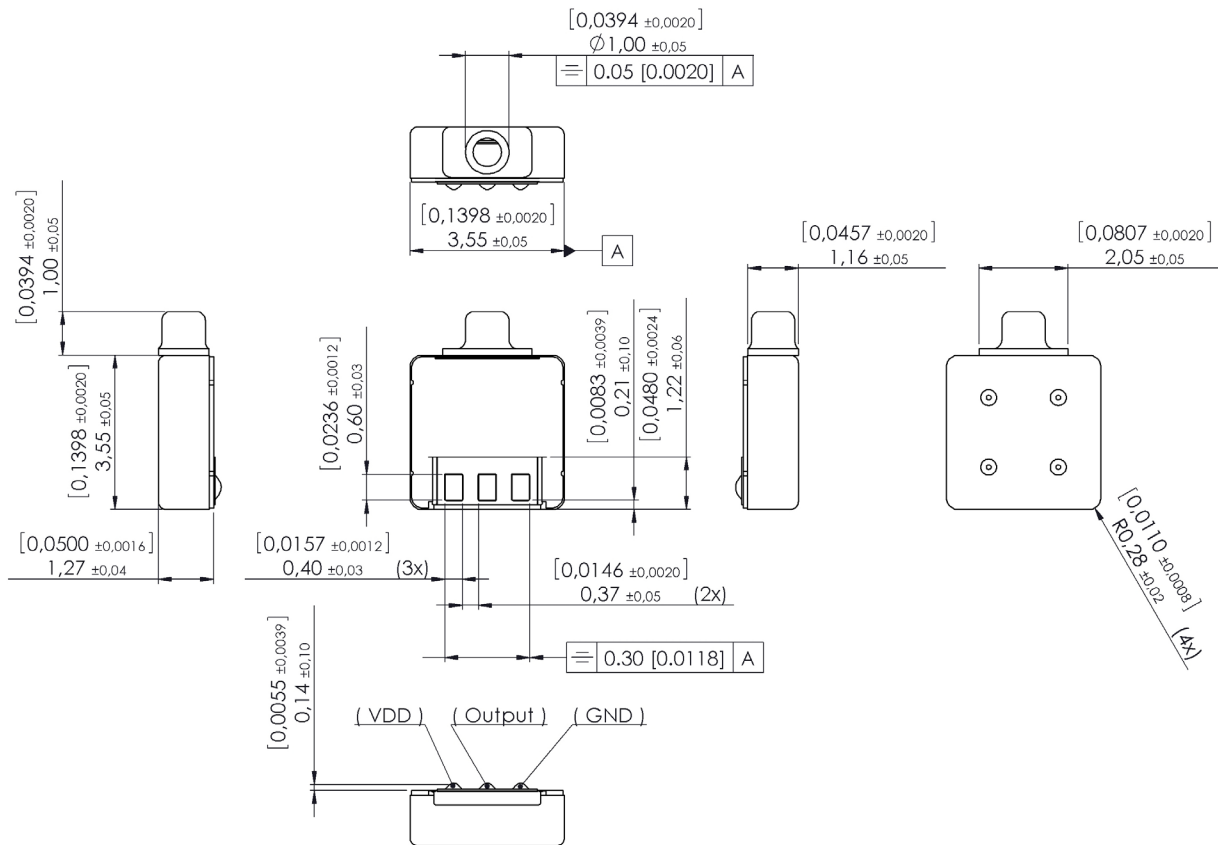
Miniature electret condenser microphone for hearing instruments

Features

- High sensitivity
- Lowest noise in 6000-size
- Improved solderability
- Improved power supply feedthrough attenuation
- Electrical highpass filter



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.

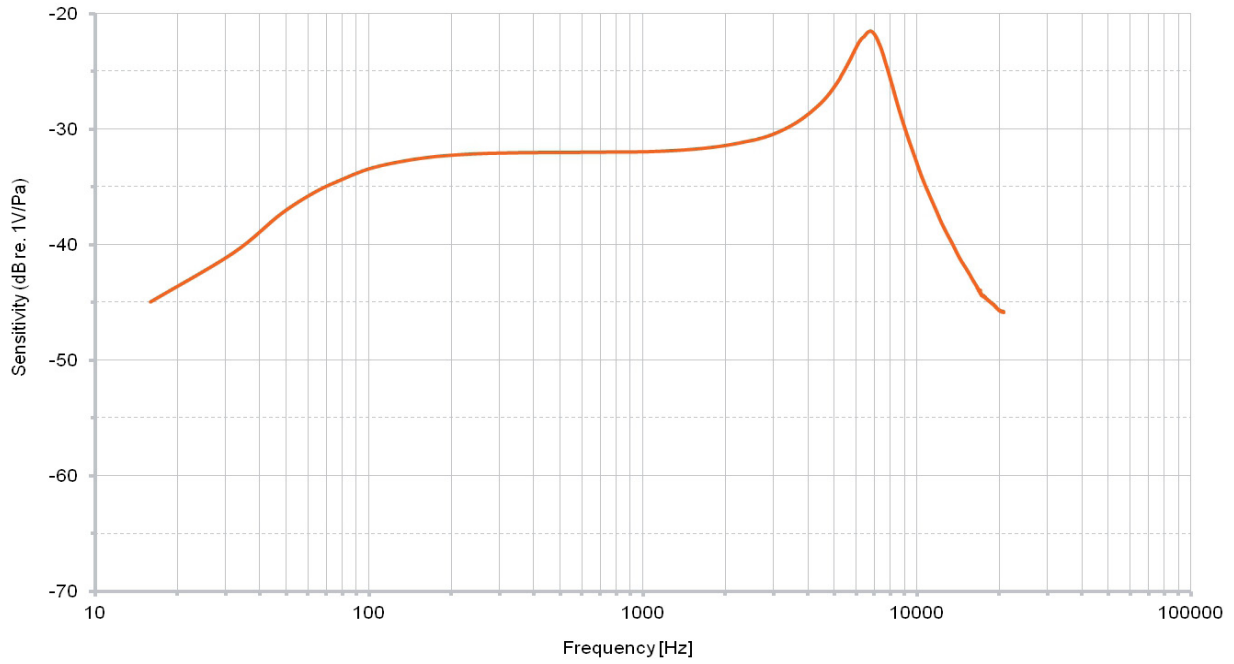
Specifications

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

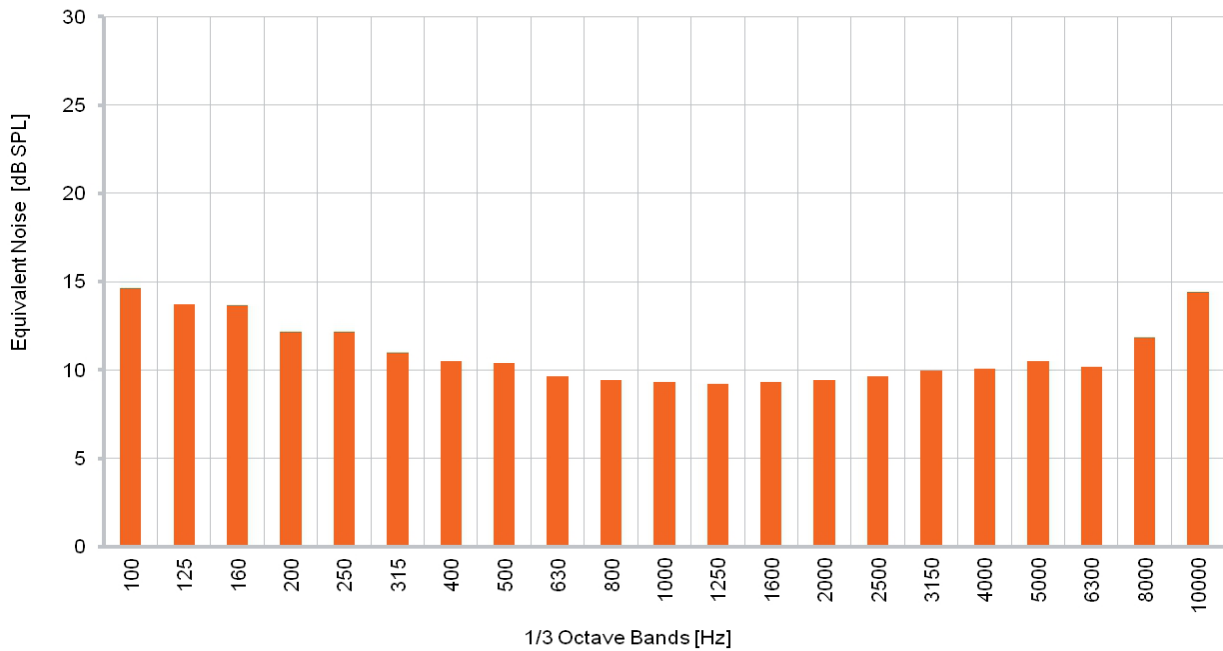
Parameters		Min	Typ	Max	Unit	Comments
Sensitivity *	@ 75 Hz	-5	-3	-1	dB	re. 1 kHz value
	@ 1 kHz	-35	-32	-29	dB	re. 1V per Pascal
	@ 6.5 kHz	6.5	9.5	12.5	dB	re. 1 kHz value
Peak frequency			6.5		kHz	Approx.
Equivalent noise (A-weighted)			26	28	dB SPL	
Power supply feedthrough			-32	-29	dB	
Battery voltage range		0.8	0.9	3.6	VDC	
Battery drain		20	25	32	µA	
Output impedance **		2.2	3.1	4	kOhm	
Maximum input level @ 1 kHz			113.5		dB SPL	3% THD
Input-referred vibration sensitivity			67		dB SPL/g	1 kHz ref.
Sensitivity change with humidity			0.02		dB/%RH	
Input-referred EMI noise	0.8-0.96 Ghz			25	dB SPL	according SMI 255, E-75 V/m
	1.8-2.0 GHz			25	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.						
* 1 kHz sensitivity at 1.3 VDC supply: -32 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply: 3.1 kOhm typ.						

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Typical response curve



Typical 1/3 octave equivalent noise



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