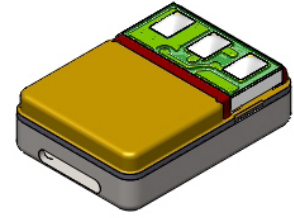


Description

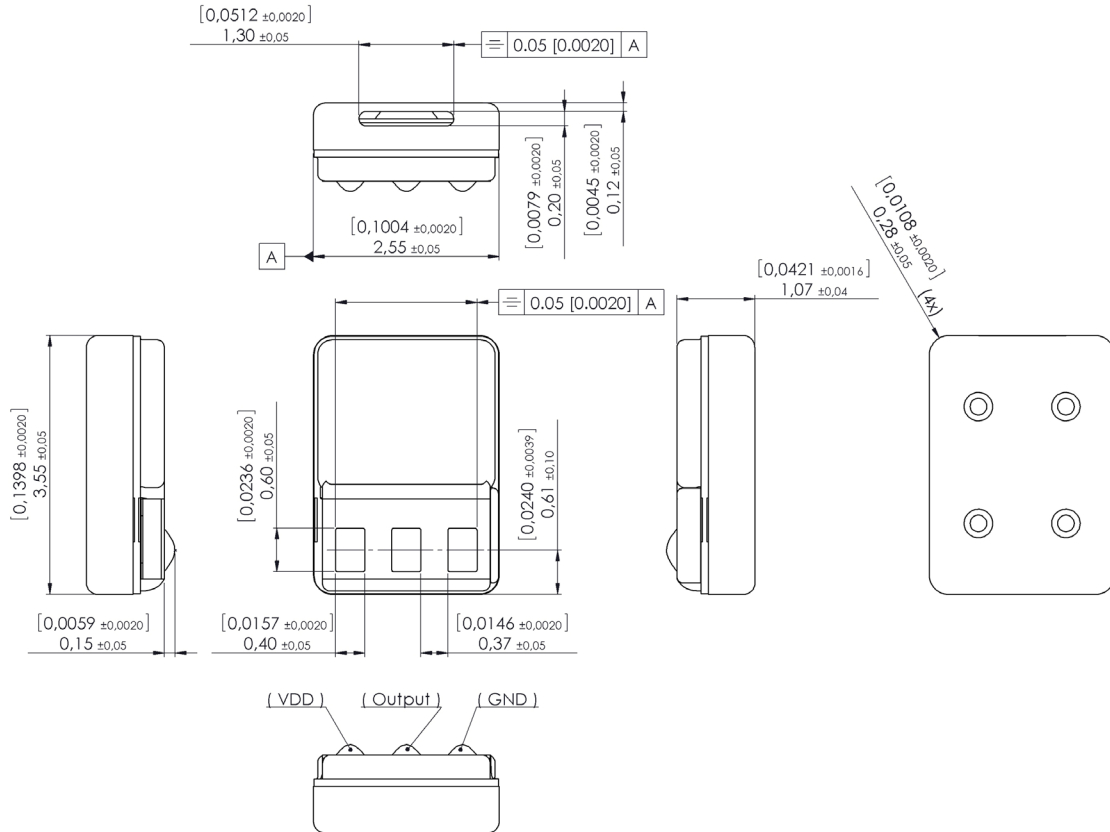
Rectangular miniature electret condenser microphone for hearing instruments

Features

- Less than 10mm³ in size and just 1.07mm in thickness
- ~20% thinner than the 5100 microphone
- Industry standard performance in an extremely small package



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.

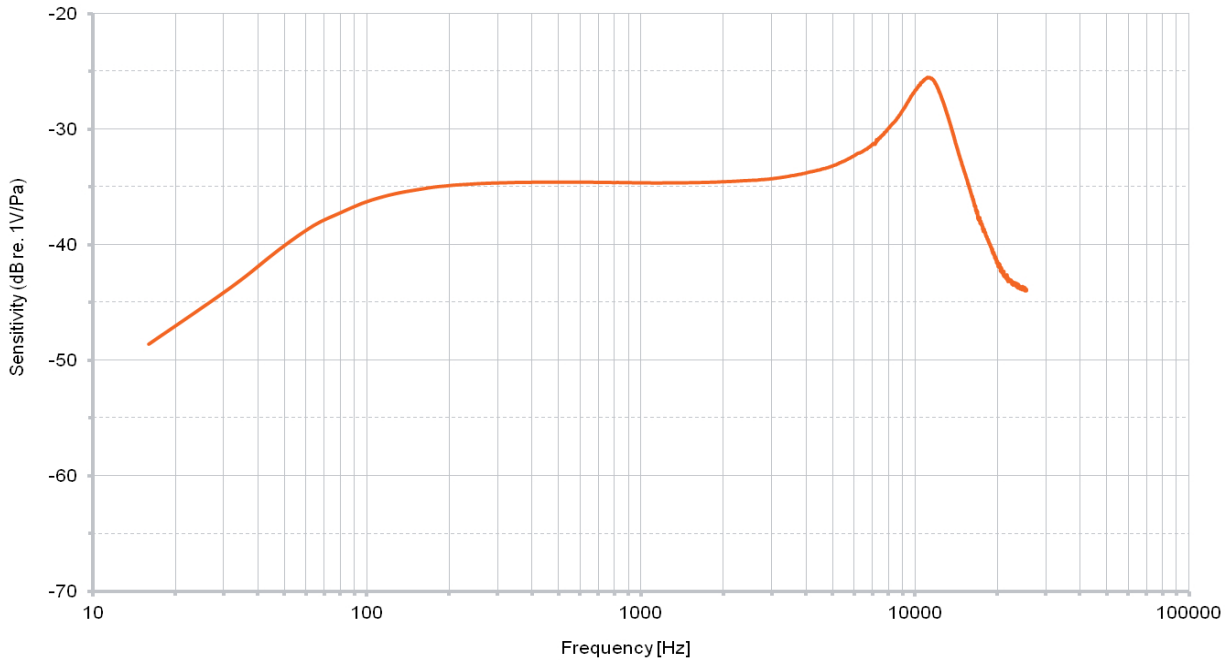
Acoustic parameters	Min	Typ	Max	Unit	Comments	
Sensitivity *	@ 75 Hz	-5	-3	-1	dB	re. 1 kHz value
	@ 1 kHz	-37.5	-34.5	-31.5	dB	re. 1V per Pascal
	@ 10 kHz	5	8	11	dB	re. 1 kHz value
Peak frequency		11		kHz		
Equivalent noise (A-weighted)		27.5	30	dB SPL		
Power supply feedthrough		-33	-30	dB		
Battery voltage range	0.8	0.9	3.6	VDC		
Battery drain	20	25	32	µA		
Output impedance **	2.2	3.1	4	kOhm		
Input-referred vibration sensitivity		65		dB SPL/g	1 kHz ref. acc. in axial dir.	
Sens. change with humidity variation		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: -34.5 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply: 3 kOhm typ.						

Mechanical data

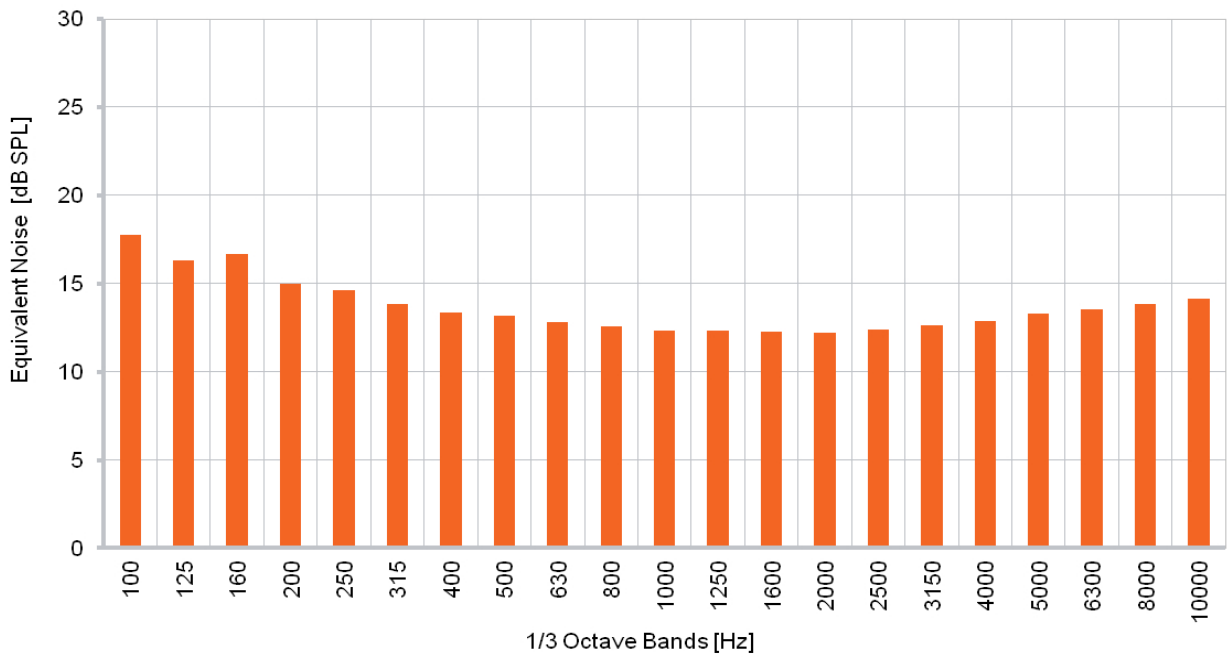
Weight	0.03 gr.
Case material	AISI316
Solder pad material	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

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Typical response curve



Typical 1/3 octave equivalent noise



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