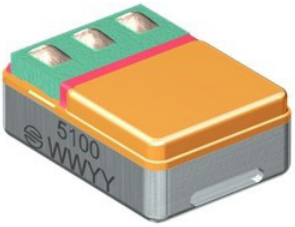
Description

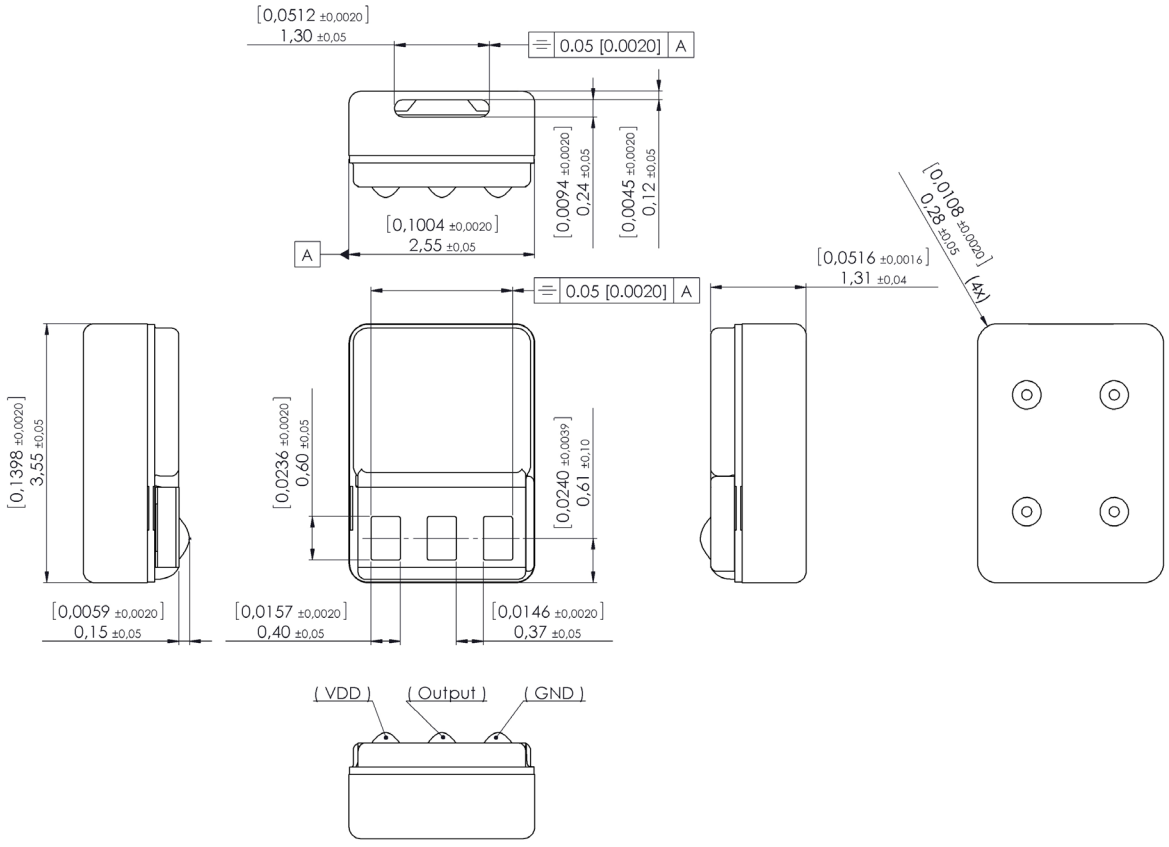
Rectangular miniature electret condenser microphone for hearing instruments



Features

- Reduced size
- Rectangular shape

Product drawing - Dimensions in mm [inch]



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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	-35.5	-32.5	-29.5	dB	re. 1V per Pascal
	@ 10.5 kHz	2.5	5	7	dB	re. 1 kHz value
Peak frequency			10.5		kHz	
Equivalent noise (A-weighted)			24.5	27.5	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: -32.5 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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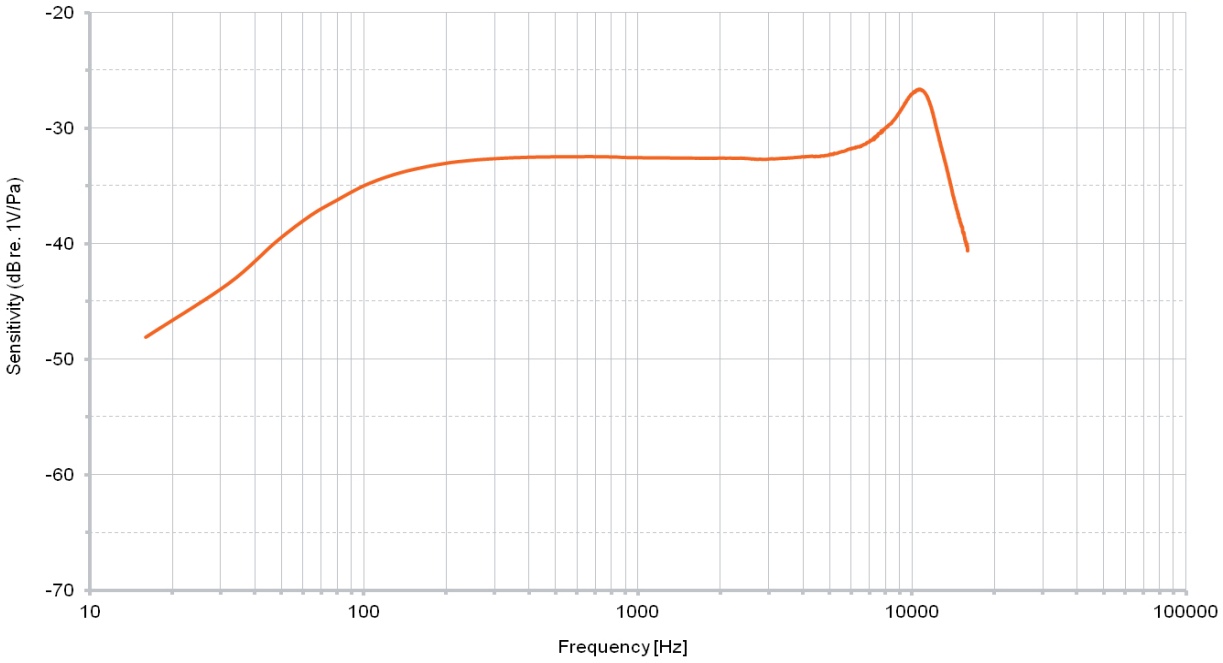
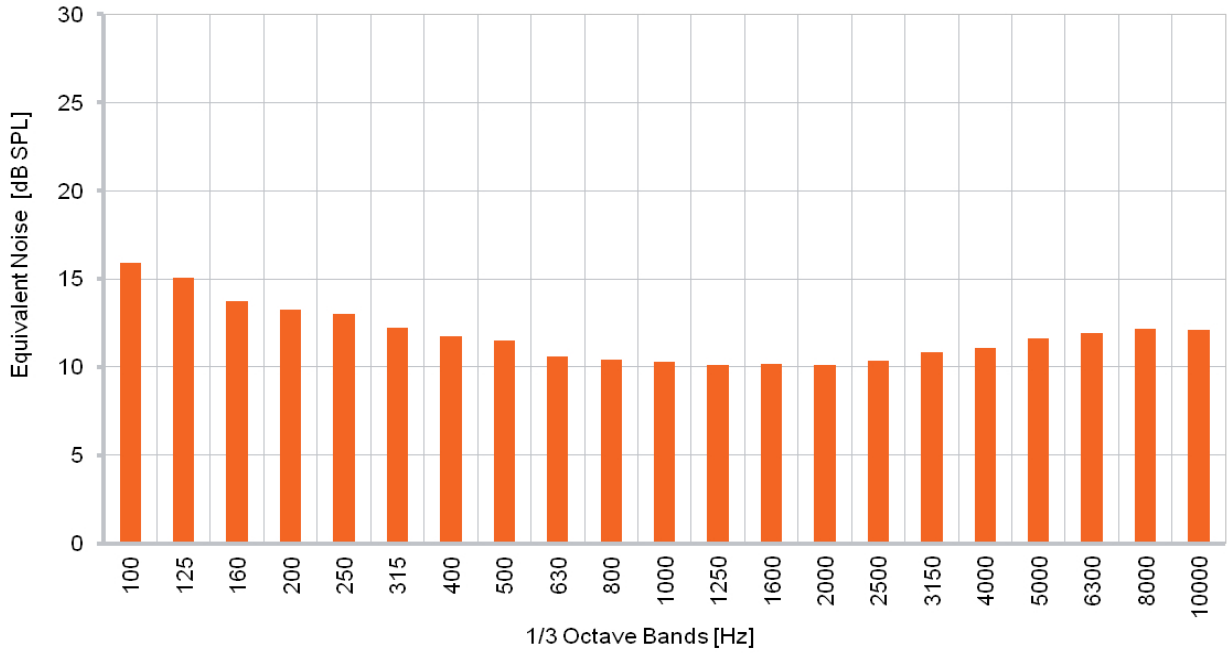
Typical response curve



Typical 1/3 octave equivalent noise



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