

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.

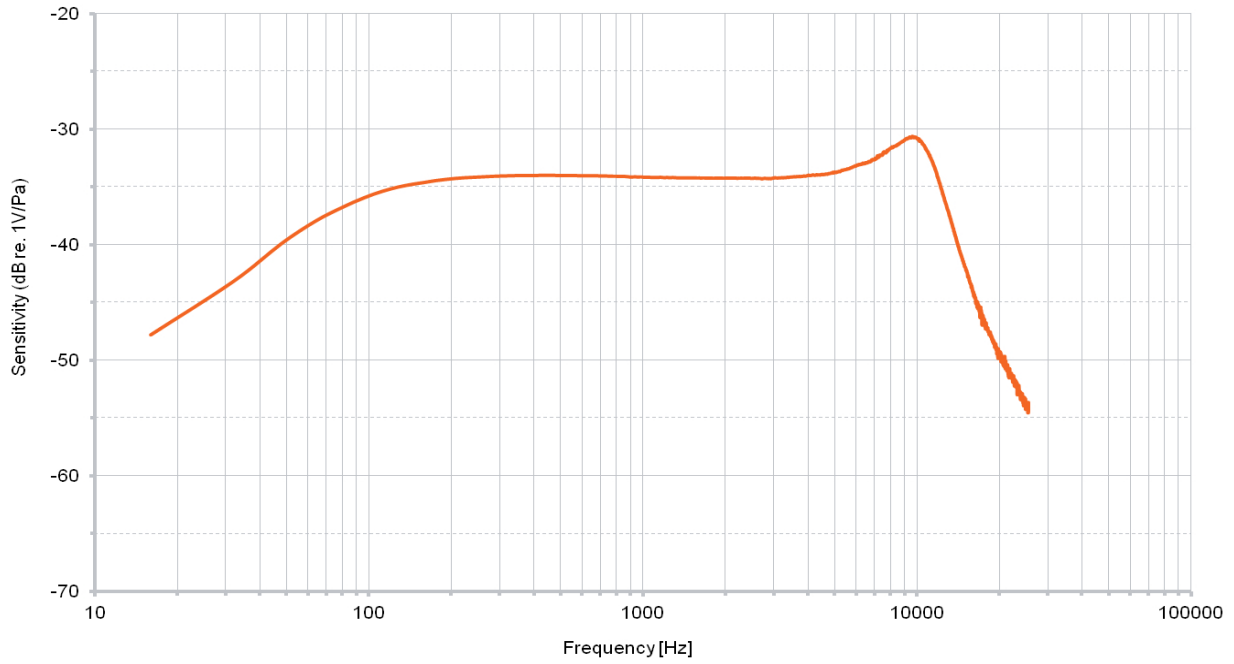
Acoustic parameters	Min	Typ	Max	Unit	Comments	
Sensitivity *	@ 75 Hz	-5	-3	-1	dB	re. 1 kHz value
	@ 1 kHz	-37.5	-34.5	-31.5	dB	re. 1V per Pascal
	@ 10 kHz	1.5	4.5	7.5	dB	re. 1 kHz value
Peak frequency		10		kHz		
Equivalent noise (A-weighted)		25.5	28	dB SPL		
Power supply feedthrough		-33	-30	dB		
Battery 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

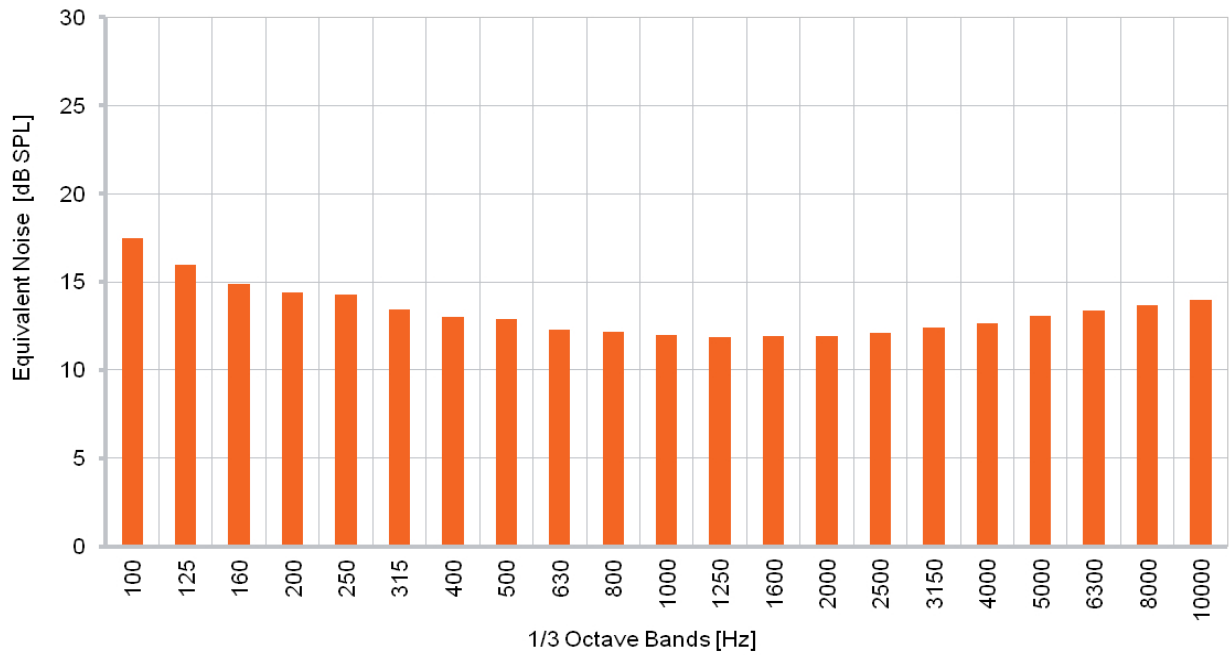
Weight	0.03 gr.
Case material	AISI316
Solder pad material	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

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

Typical response curve



Typical 1/3 octave equivalent noise



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