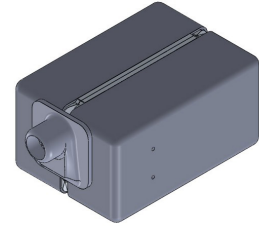


Description

Miniature magnetic receiver (Balanced Armature Type) for use in In Earphone applications.



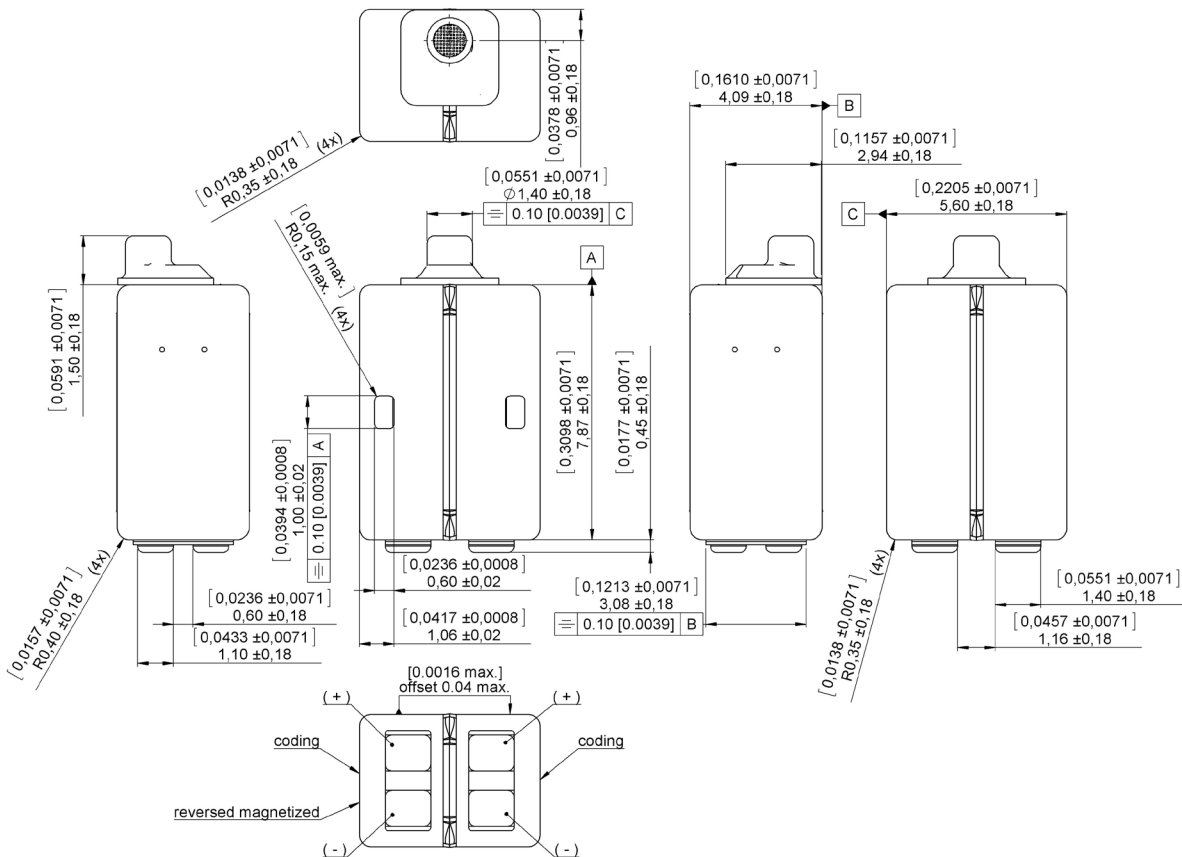
Features

- High output and high sensitivity woofer
- Grid damped spout
- Ideal for use as woofer in multiple receiver IEM applications

Mechanical data

Weight	0.60 gr.
Case material	Ni80Fe15Mo5
Solder pad material	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

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. Receivers series of this type can produce very high sound pressure levels. When such receivers are applied in hearing instruments or other communications equipment special attention should be paid to this capacity in order to prevent possible hearing damage.

Specifications

The acoustic termination consist of: 4.5 x 1.4 mm ID + 11 x 1.9 mm ID into IEC 711 coupler.

Drive is voltage drive of 0.100 V RMS unless specified otherwise and measured with open vents.

Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 30 Hz	123	126	129	dB	
	@ 100 Hz	123.5	126	128.5	dB	
	@ 500 Hz	118.5	121	123.5	dB	
	@ 1000 Hz	115	117.5	120	dB	
	@ 2000 Hz	109	112	115	dB	
THD	@ 150 Hz		1	5	%	
	@ 2000 Hz		2	5	%	
Maximum output @ 50Hz-THD <5%			132		dB	corresponding input ~200 mV

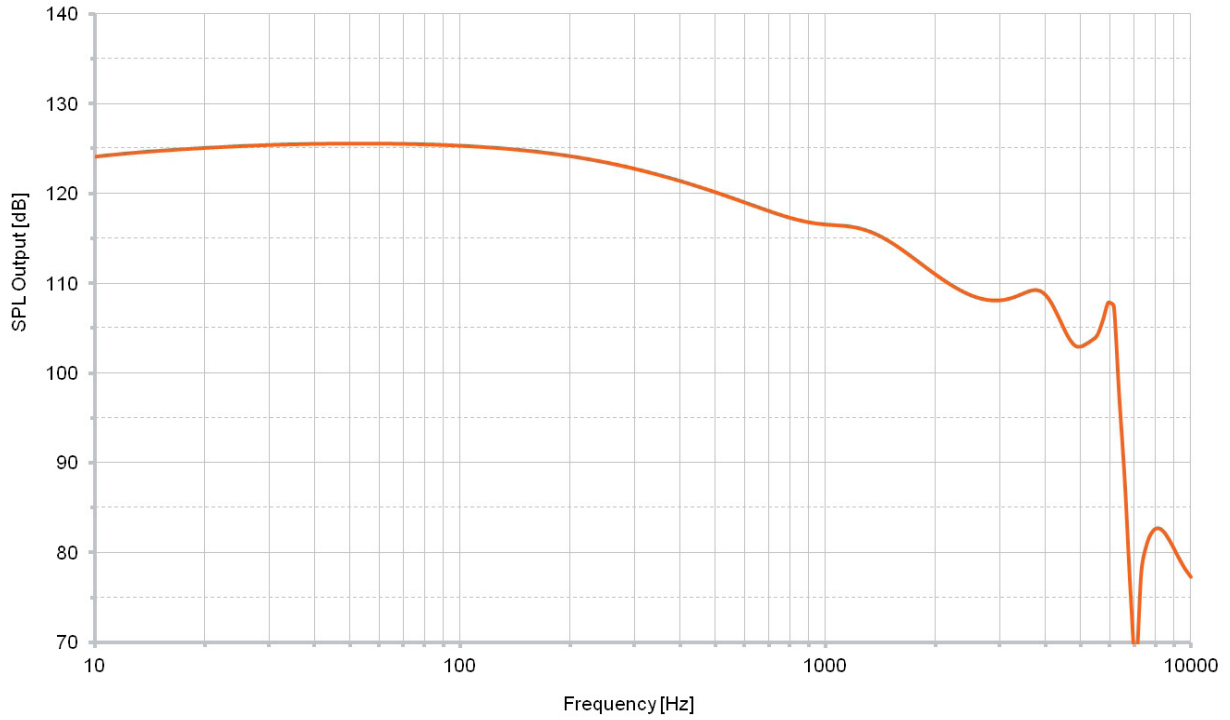
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	20	25	30	Ohm	open vents
Impedance @ 500 Hz	16.8	21	25.2	Ohm	open vents
DC resistance @ 20°C	10.6	12.5	14.4	Ohm	open vents
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	8000			g	90% survival rate with THD @ 1/2 peak frequency < 10%
Storage temperature range	-40		63	°C	

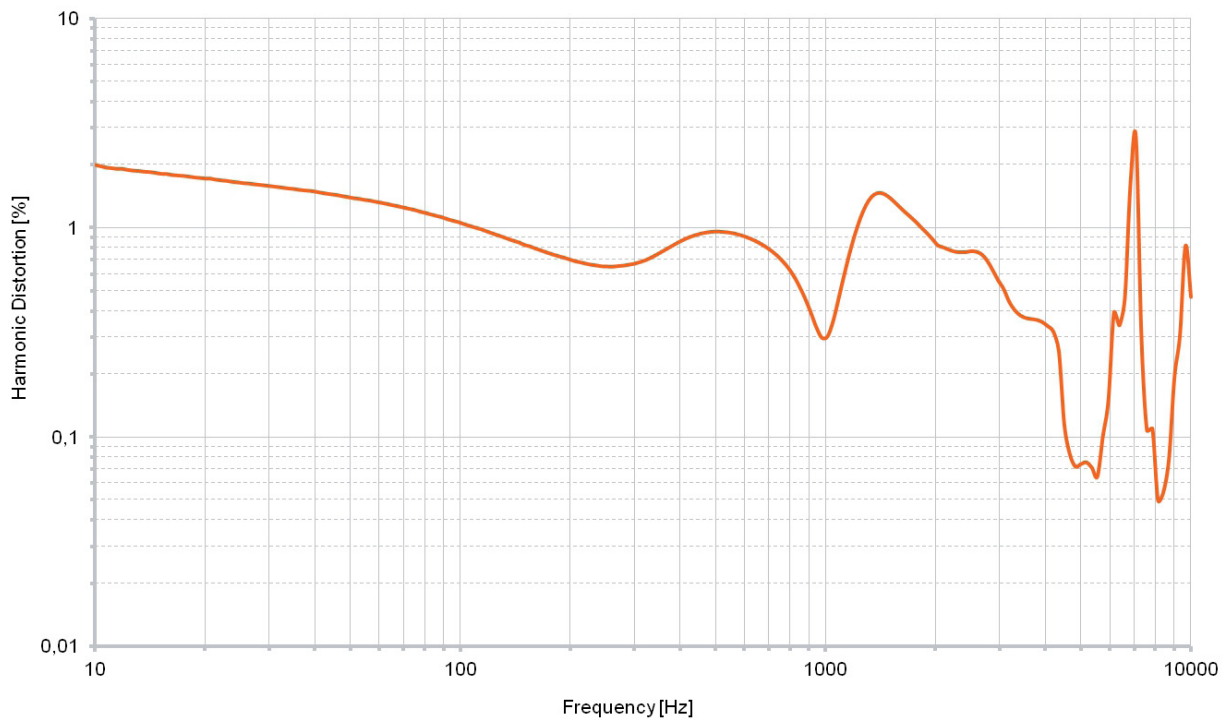
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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Typical response curve



THD vs Frequency, typical, nominal input



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