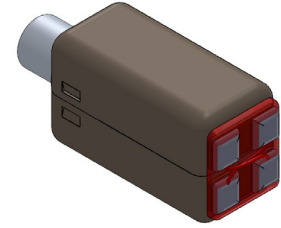


## Description

Miniature magnetic receiver (balanced armature type) for use in hearing aids.

## Features

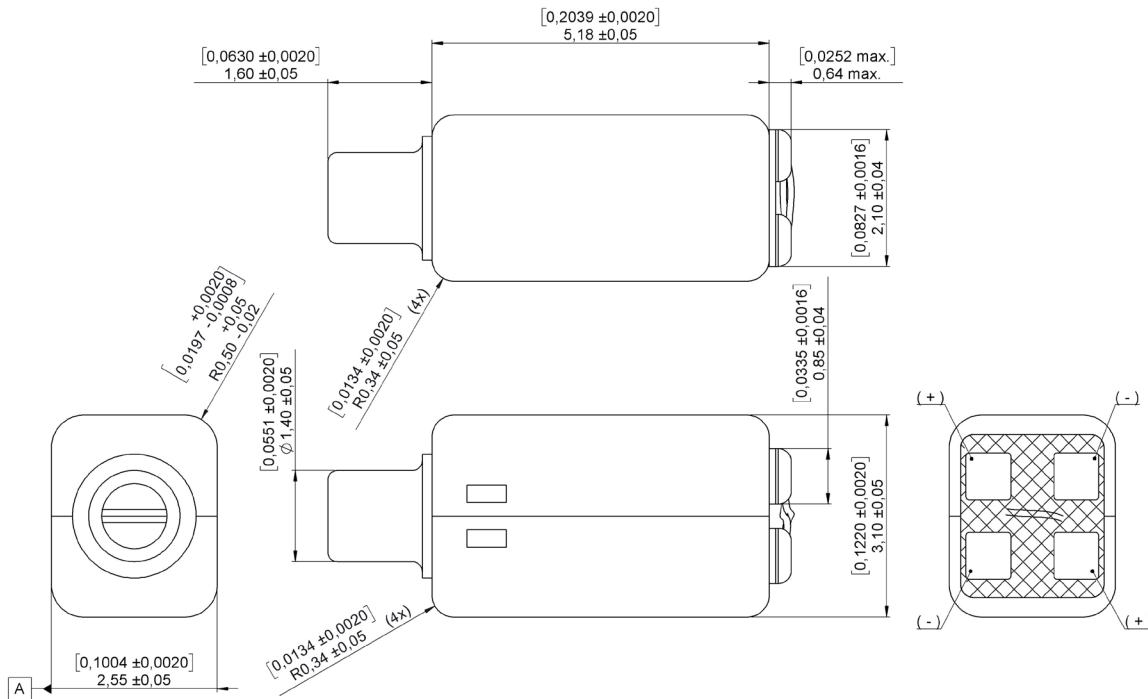
- Dual receiver, parallel connected
- Short size
- Reduced mechanical vibration
- Reduced magnetic radiation



## Mechanical data

Weight	0.17 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

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.

Constant voltage drive of 0.153 V RMS (0.35 mVA @ 500 Hz) unless specified otherwise.

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

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	95.5	98.5	101.5	dB	
	@ 500 Hz	95.5	98.5	101.5	dB	
	@ 1000 Hz	95.5	98.5	101.5	dB	
Peak 1	frequency	2500	2800	3100	Hz	
	output	101.5	104.5	107.5	dB	
Valley 1	frequency	4050	4550	5050	Hz	
	output	93	96		dB	
Peak 2	frequency	4850	5350	5850	Hz	
	output	94	98	102	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			120		dB	@ 0.92 Vrms

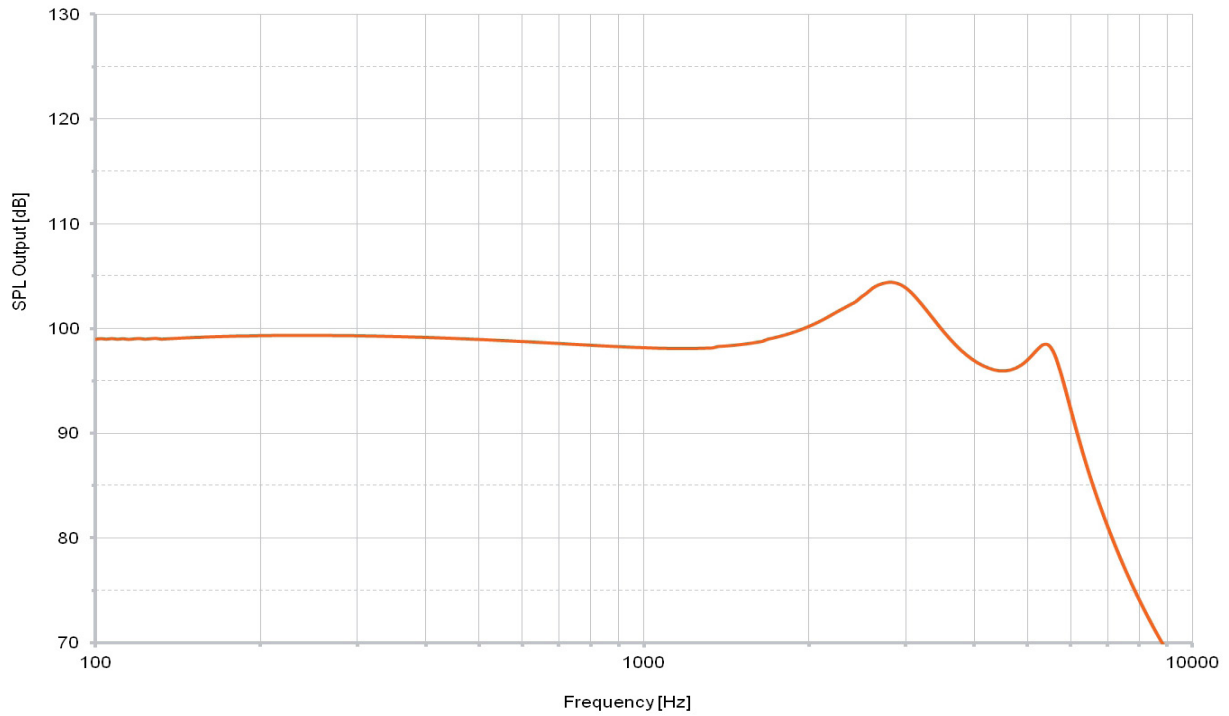
Electric parameters		Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz		71	90	105	Ohm	
Impedance @ 500 Hz		57	70	83	Ohm	
DC resistance @ 20°C		54	60	66	Ohm	
DC bias current range		zero bias				

Additional parameters		Min	Typ	Max	Unit	Comments
Shock resistance		12000			g	90% survival rate with THD @ 1/2 peak frequency < 10%
Storage temperature range		-40		63	°C	

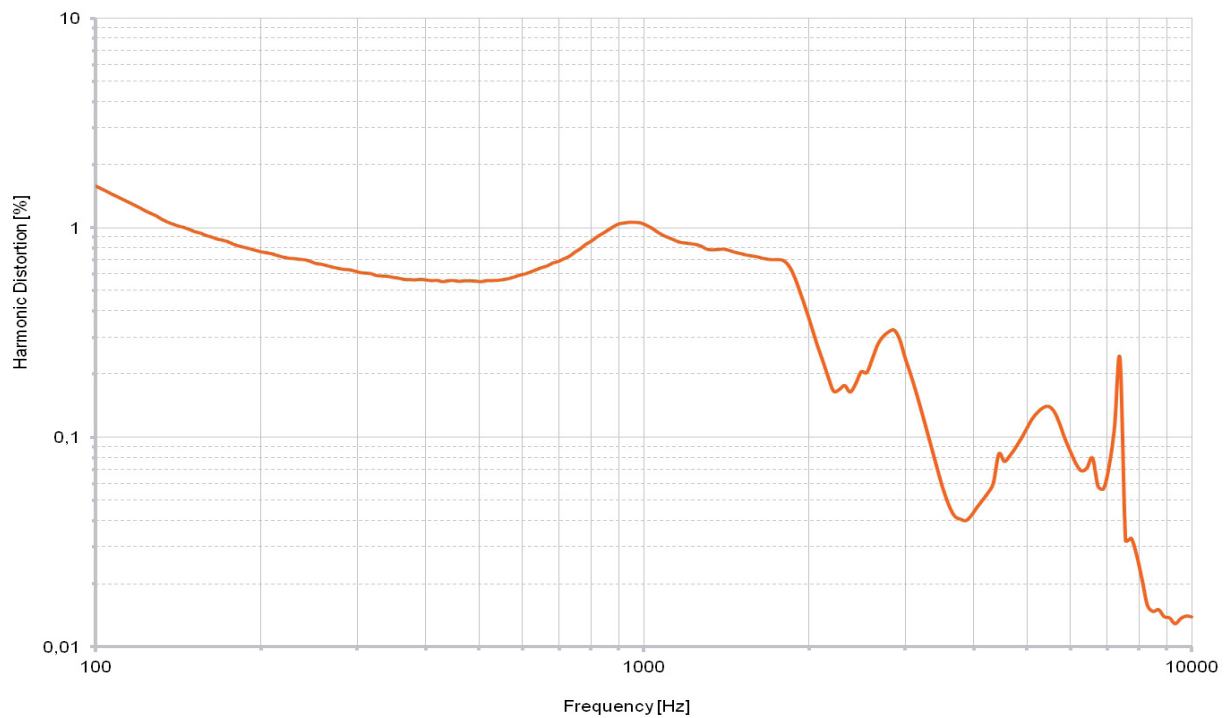
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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## Typical response curve



## THD vs Frequency, typical, nominal input



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