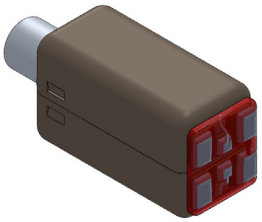
Description

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



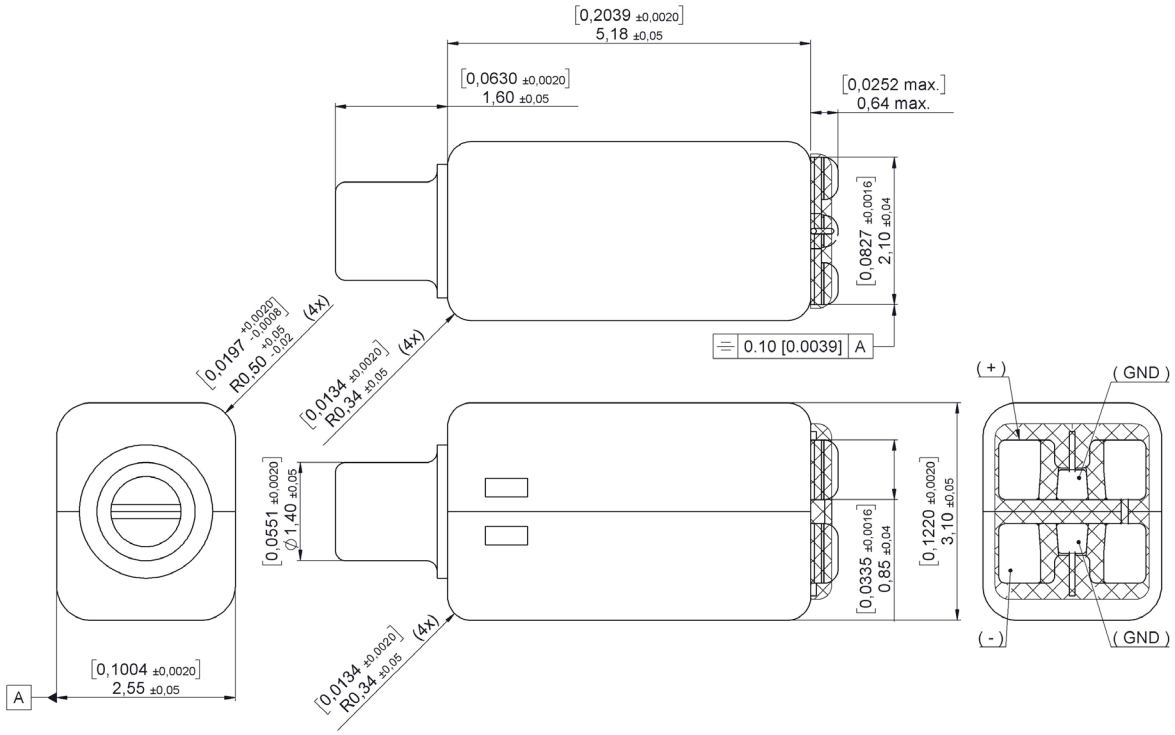
Features

- Dual receiver, series 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]



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Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.
Constant voltage drive of 0.240 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			116		dB	@ 0.92 Vrms

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	190	210	232	Ohm	
Impedance @ 500 Hz	153	170	187	Ohm	
DC resistance @ 20°C	136	150	166	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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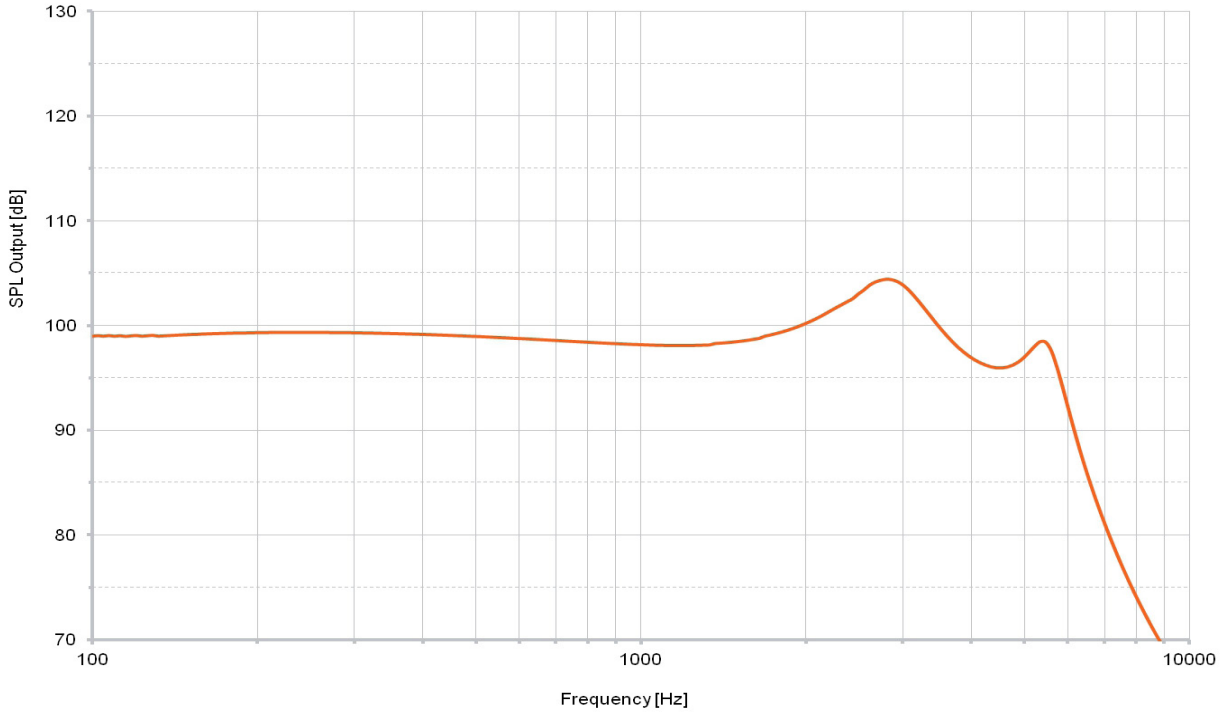
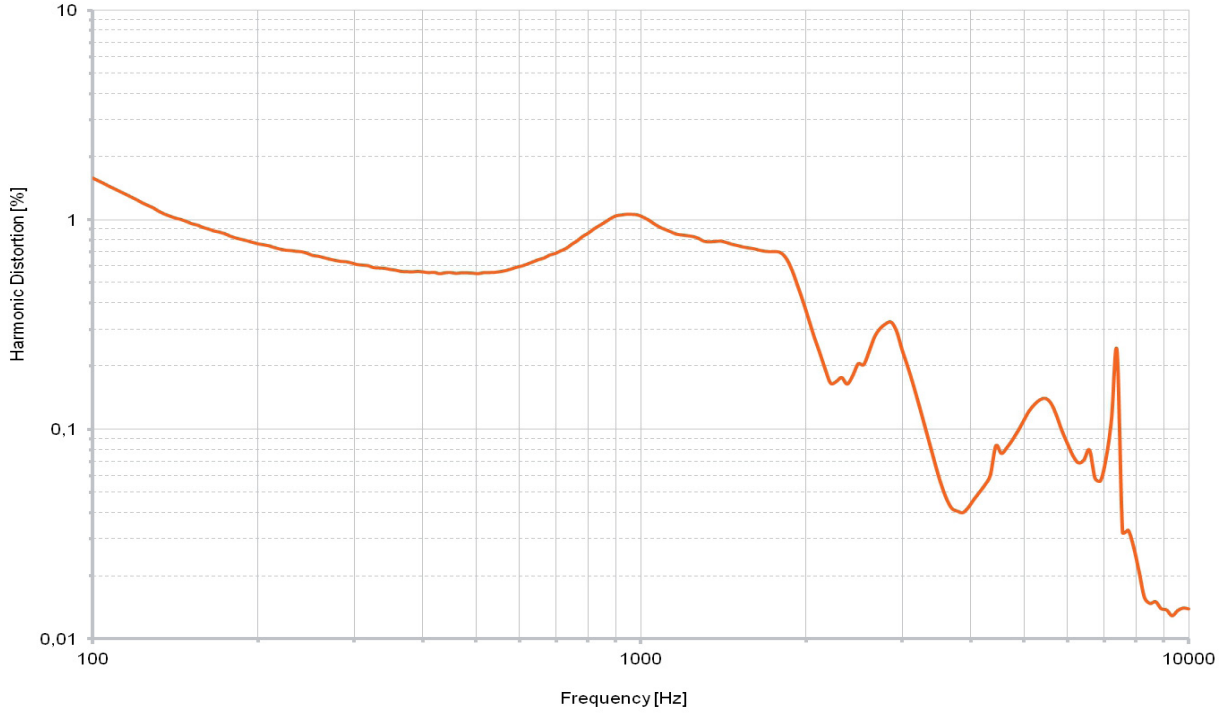
Typical response curve



THD vs Frequency, typical, nominal input



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