

Description

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



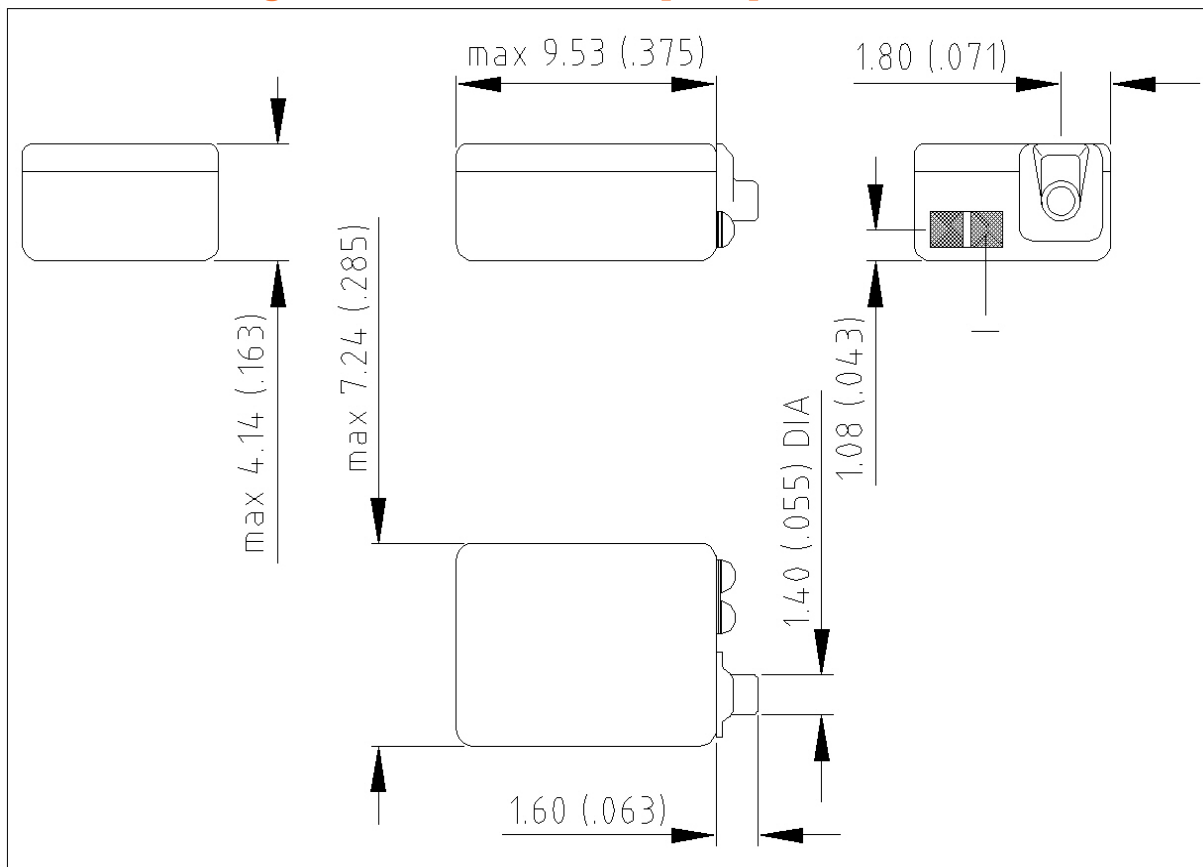
Features

- Improved resistance to mechanical shock
- Special sound port

Mechanical data

Weight	0.94 gr.
Case material	Ni80Fe20
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 consists of: 8 mm x 1 mm ID + 28 mm x 1.5 mm ID + 25 mm x 2 mm ID + 18 mm x 3 mm ID + 2 cc coupler. The electrical input is a 4.56 mA RMS constant current signal from a high impedance source. Environmental conditions: 23 °C (73.4F), 50 % RH.

Acoustic parameters	Min	Typ	Max	Unit	Comments	
Sensitivity	@ 200 Hz	111	113	115	dB	
	@ 300 Hz	112	114	116	dB	
	@ 500 Hz	116.5	118.5	120.5	dB	
Peak 1	frequency	650	800	950	Hz	
	output	125	127	129	dB	
Valley 1	frequency	1100	1400	1700	Hz	
	output	115	117		dB	
Peak 2	frequency	1850	2000	2150	Hz	
	output	124	126	128	dB	
Valley 2	frequency	2300	2550	2800	Hz	
	output	114	117		dB	
Peak 3	frequency	2850	3000	3150	Hz	
	output	119	122	125	dB	
Valley 3	frequency	3500	3700	3900	Hz	
	output	109.5	112.5		dB	
Peak 4	frequency	4000	4150	4300	Hz	
	output	113	116	119	dB	
Valley 4	frequency	4800	5100	5400	Hz	
	output	95	99		dB	
Peak 5	frequency	5500	5700	5900	Hz	
	output	100	105	110	dB	
THD	@ 1/3 peak			9	%	
	@ 1/2 peak			9	%	
Maximum output @ peak frequency	129	133	137	dB	measured with voltage drive	

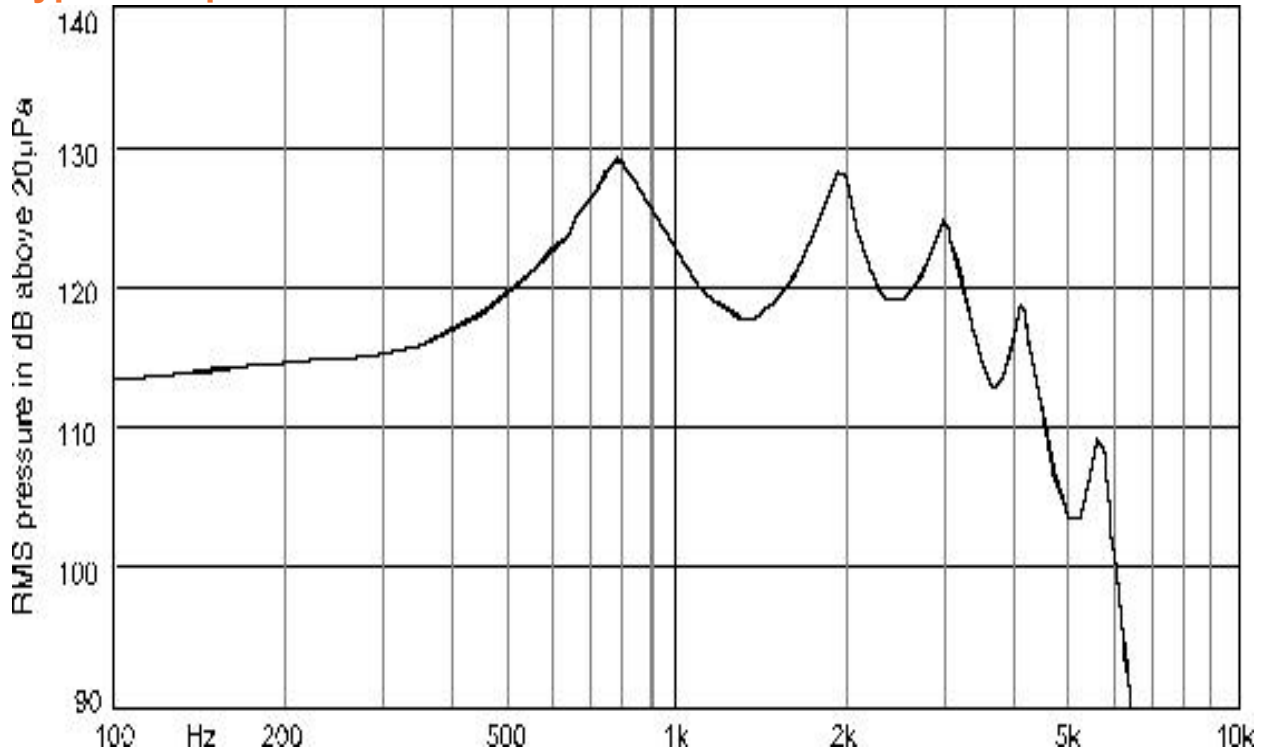
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ nominal	36	48	58	Ohm	Geometric average 1, 1.6 and 2.5 kHz
DC resistance @ 20°C	8	10	15	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	5500			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



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