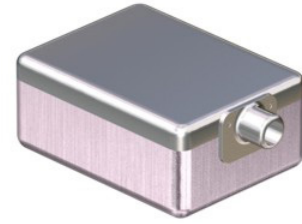


Description

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



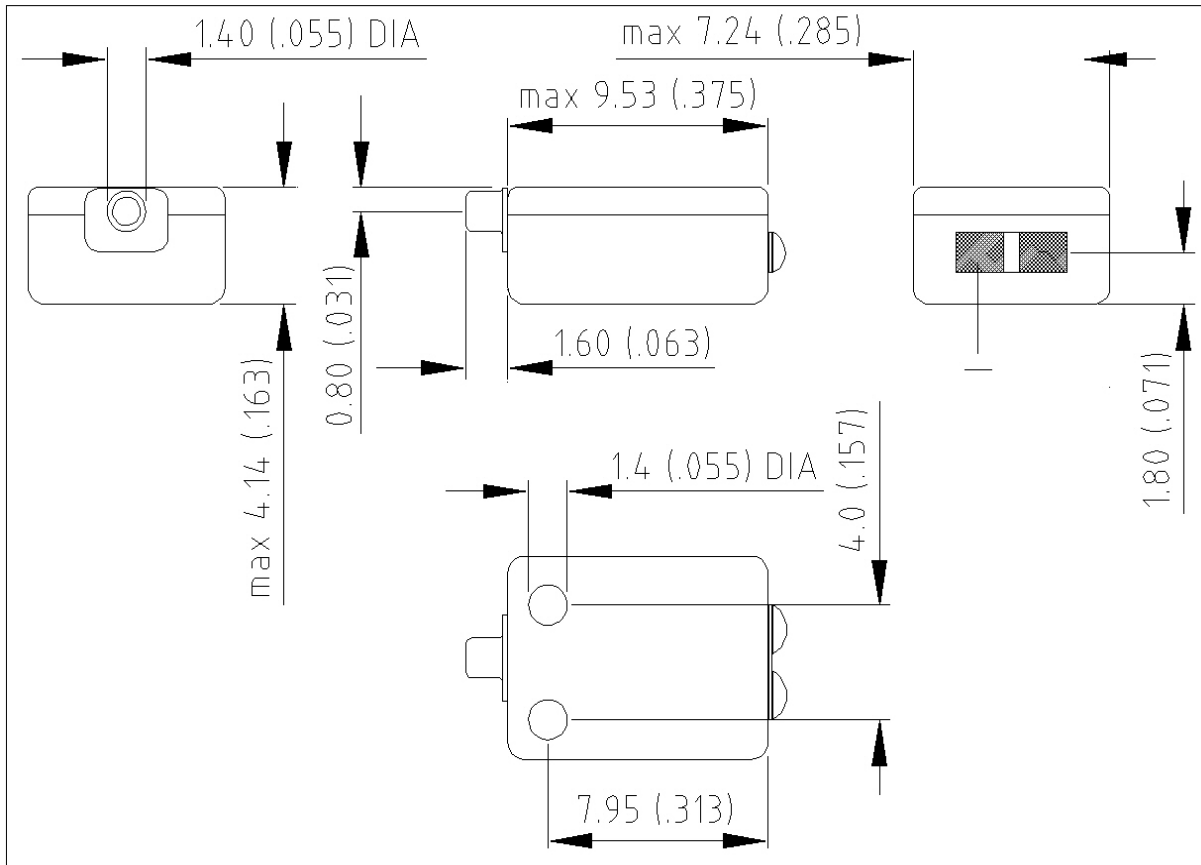
Features

- Great BTE applications
- High output, maximum peak output 140 dB
- Balanced armature design

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. The rear holes are closed. Environmental conditions: 23 °C (73.4F), 50 % RH.

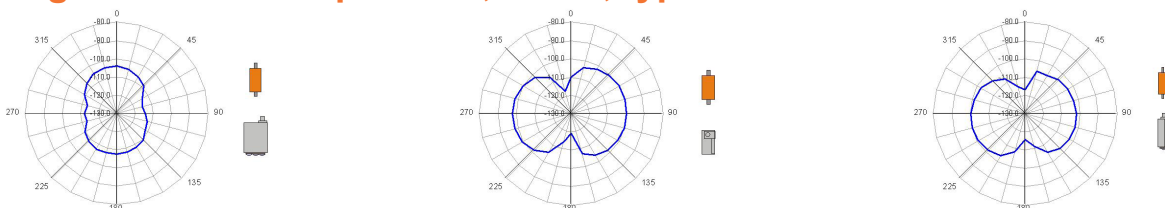
Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	112	114	116	dB	
	@ 300 Hz	113	115	117	dB	
	@ 500 Hz	116	118	120	dB	
	@ 1000 Hz	119	121	123	dB	
Peak 1	frequency	705	830	955	Hz	
	output	126	128	130	dB	
Valley 1	frequency	1100	1300	1500	Hz	
	output	116	118		dB	
Peak 2	frequency	1625	1925	2225	Hz	
	output	123	126	129	dB	
Valley 2	frequency	2100	2350	2600	Hz	
	output	115	118		dB	
Peak 3	frequency	2700	2950	3200	Hz	
	output	119	122	125	dB	
Valley 3	frequency	3350	3700	4050	Hz	
	output	107	110		dB	
Peak 4	frequency	3850	4200	4550	Hz	
	output	112	115	118	dB	
Valley 4	frequency	4750	5200	5650	Hz	
	output	97	100		dB	
THD	@ 1/3 peak			9	%	
	@ 1/2 peak			9	%	
Maximum output @ peak frequency		137	140	143	dB	

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ nominal	38	48	58	Ohm	Geometric average 1, 1.6 and 2.5 kHz
DC resistance @ 20°C	8.5	10	11.5	Ohm	

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	

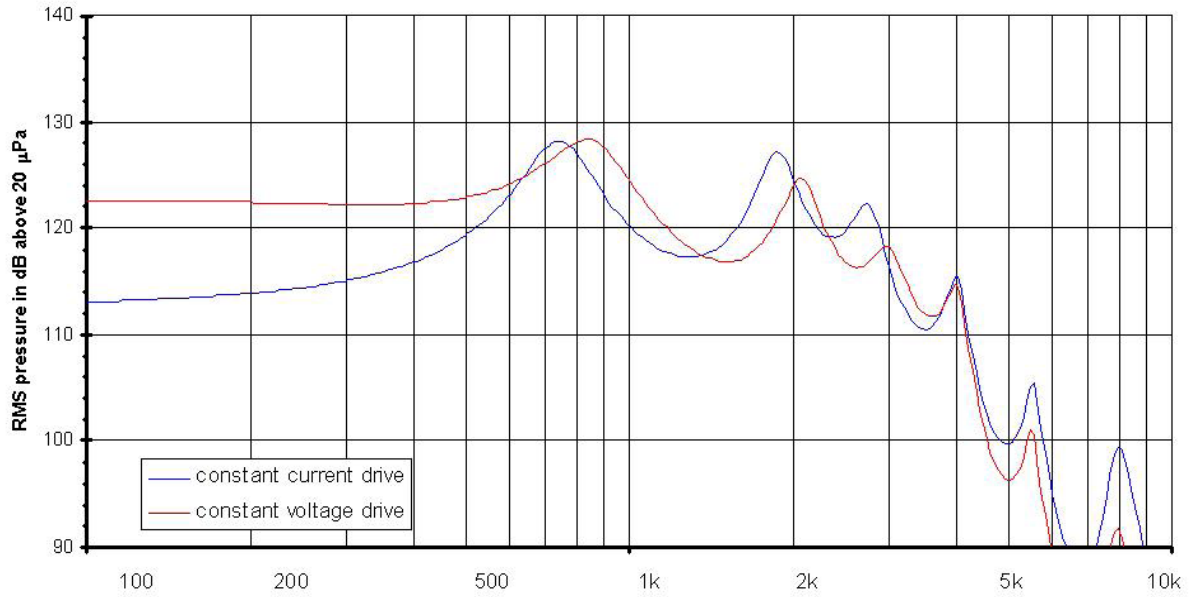
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

Magnetic radiation patterns, radial, typical at 2200 Hz

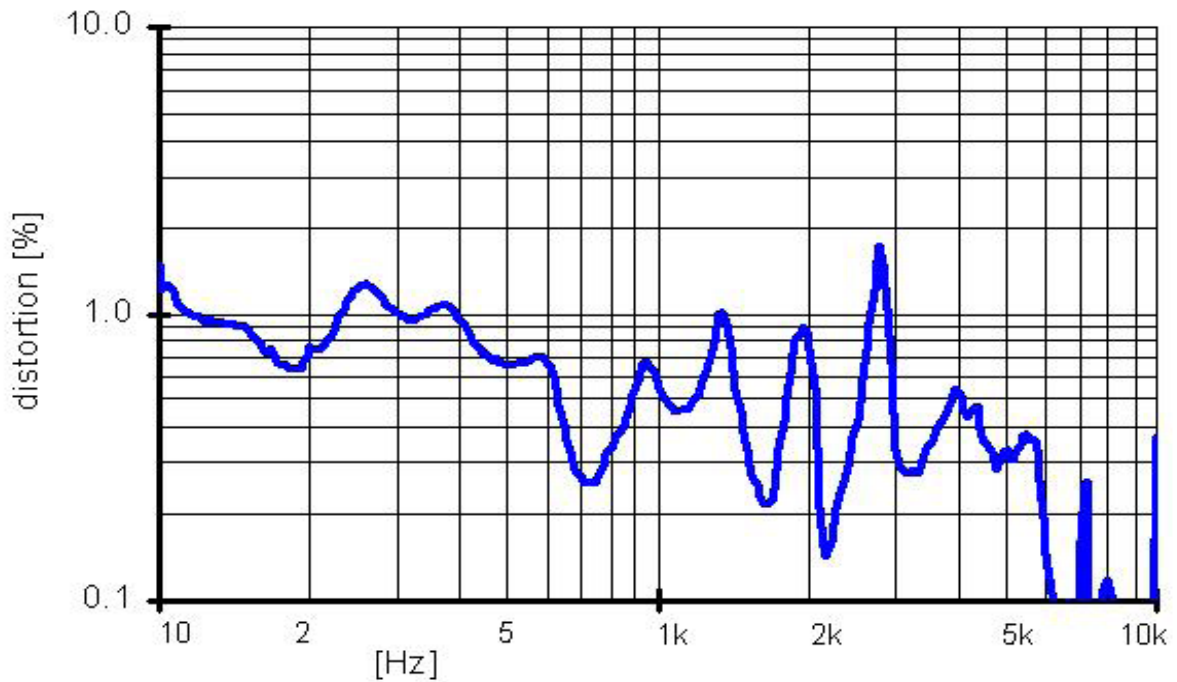


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Typical response curve



THD vs Frequency, typical, nominal input



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