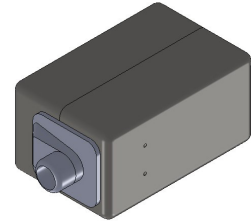


Description

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

Features

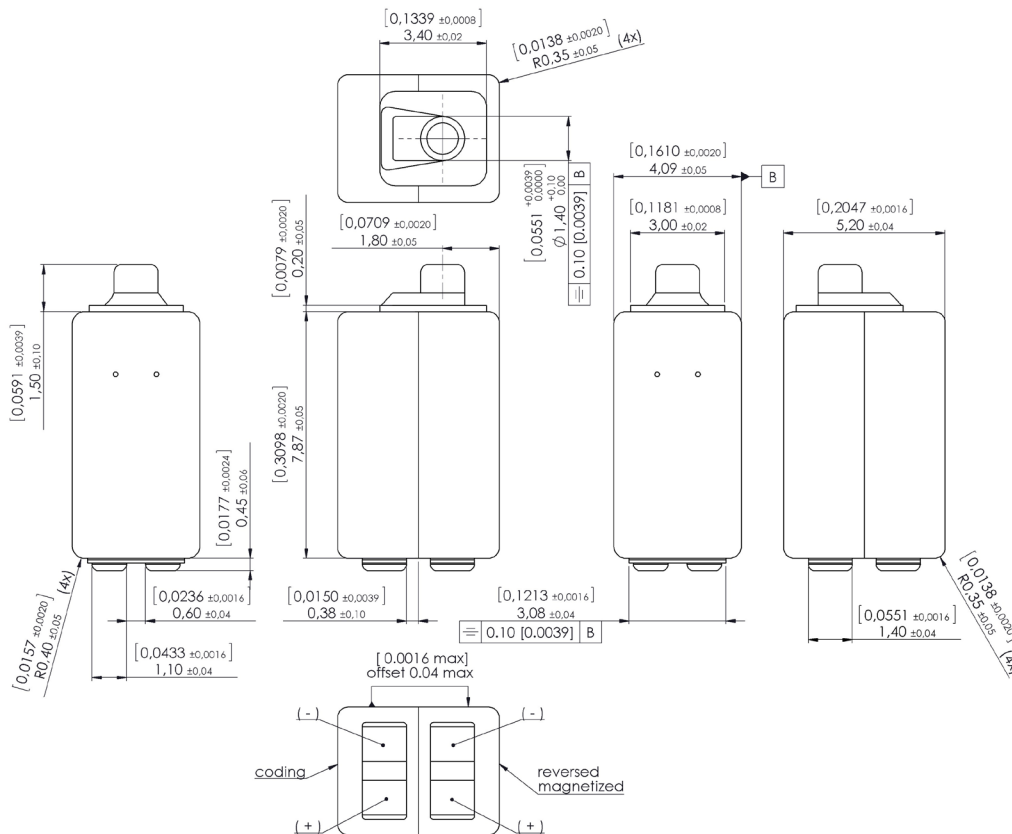
- Perfect for higher power premium BTE applications
- Tandem, twin-motor performance
- Significantly reduced mechanical vibration
- Reduced magnetic radiation
- Reduced thickness compared to standard 3700 receiver



Mechanical data

Weight	0.55 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 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. Drive is voltage drive of RMS 0.7 mVA at 500 Hz unless specified otherwise. Environmental conditions: 23 °C (73.4F), 50% RH.

Acoustic parameters	Min	Typ	Max	Unit	Comments	
Sensitivity	@ 200 Hz	112.5	115.5	118.5	dB	
	@ 300 Hz	112.5	115.5	118.5	dB	
	@ 500 Hz	113	116	119	dB	
Peak 1	frequency	800	950	1100	Hz	
	output	121	123.5	126	dB	
Valley 1	frequency	1400	1650	1900	Hz	
	output	110	112.5		dB	
Peak 2	frequency	1950	2150	2350	Hz	
	output	117.5	120	122.5	dB	
Valley 2	frequency	2600	2850	3100	Hz	
	output	106.5	109		dB	
Peak 3	frequency	3000	3300	3600	Hz	
	output	114	116.5	119	dB	
Valley 3	frequency	3800	4050	4300	Hz	
	output	102	106		dB	
Peak 4	frequency	4150	4450	4750	Hz	
	output	106.5	109.5	112.5	dB	
Valley 4	frequency	5050	5300	5550	Hz	
	output	92	95		dB	
Peak 5	frequency	5350	5750	6150	Hz	
	output	96.5	100	103.5	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency		143		dB	@ 100 mVA input	

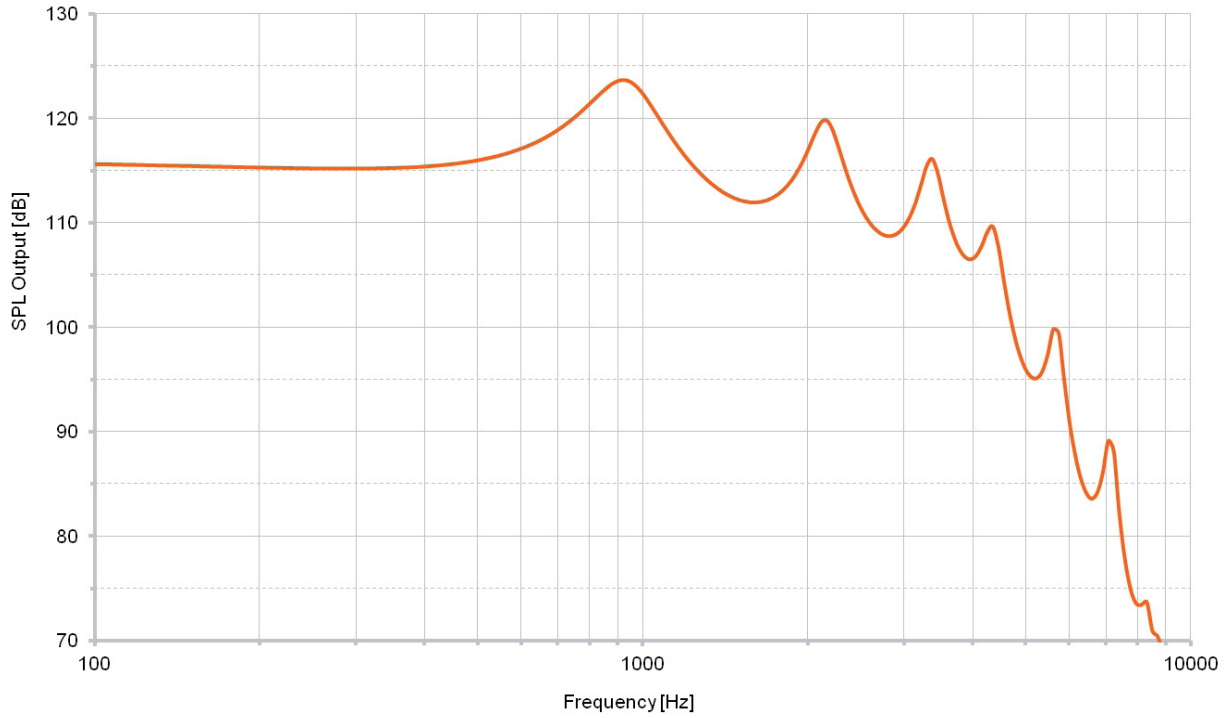
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz parallel	34	43	52	Ohm	
Impedance @ 1000 Hz series	136	172	208	Ohm	
Impedance @ 500 Hz parallel	30	37	44	Ohm	
Impedance @ 500 Hz series	120	148	176	Ohm	
DC resistance @ 20°C parallel	22	26	29	Ohm	
DC resistance @ 20°C series	88	102	116	Ohm	

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	

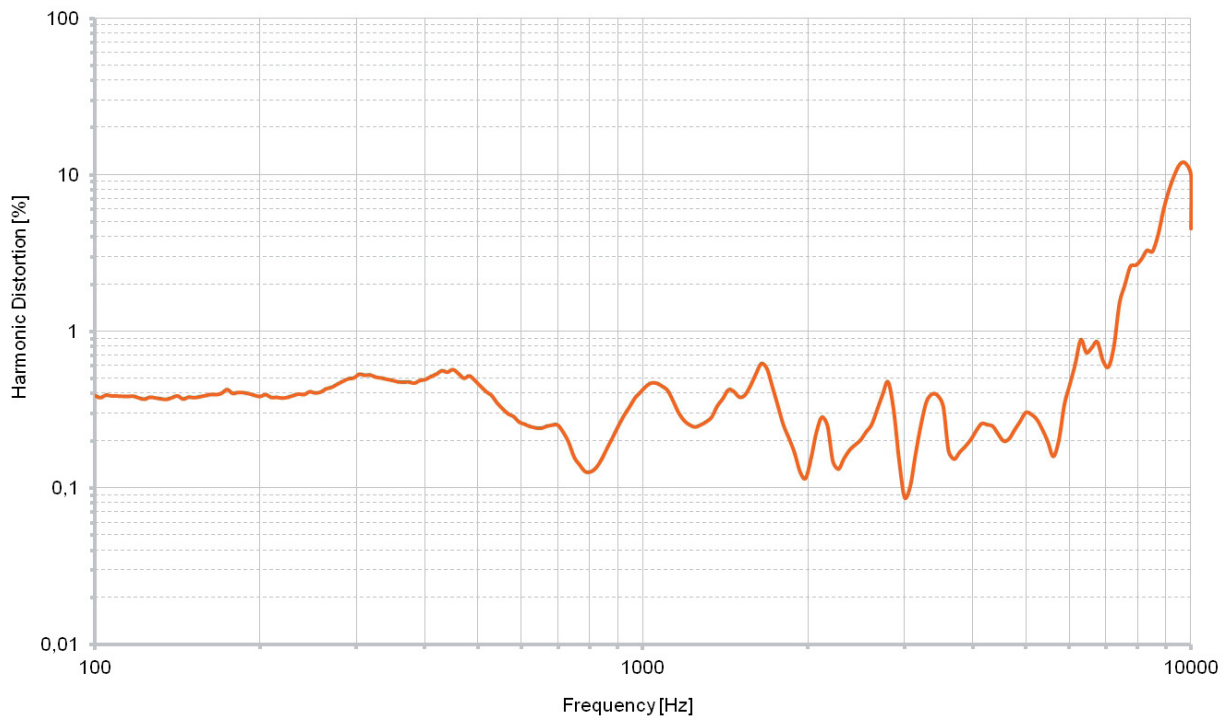
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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Typical response curve



THD vs Frequency, typical, nominal input



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