

Description

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

Features

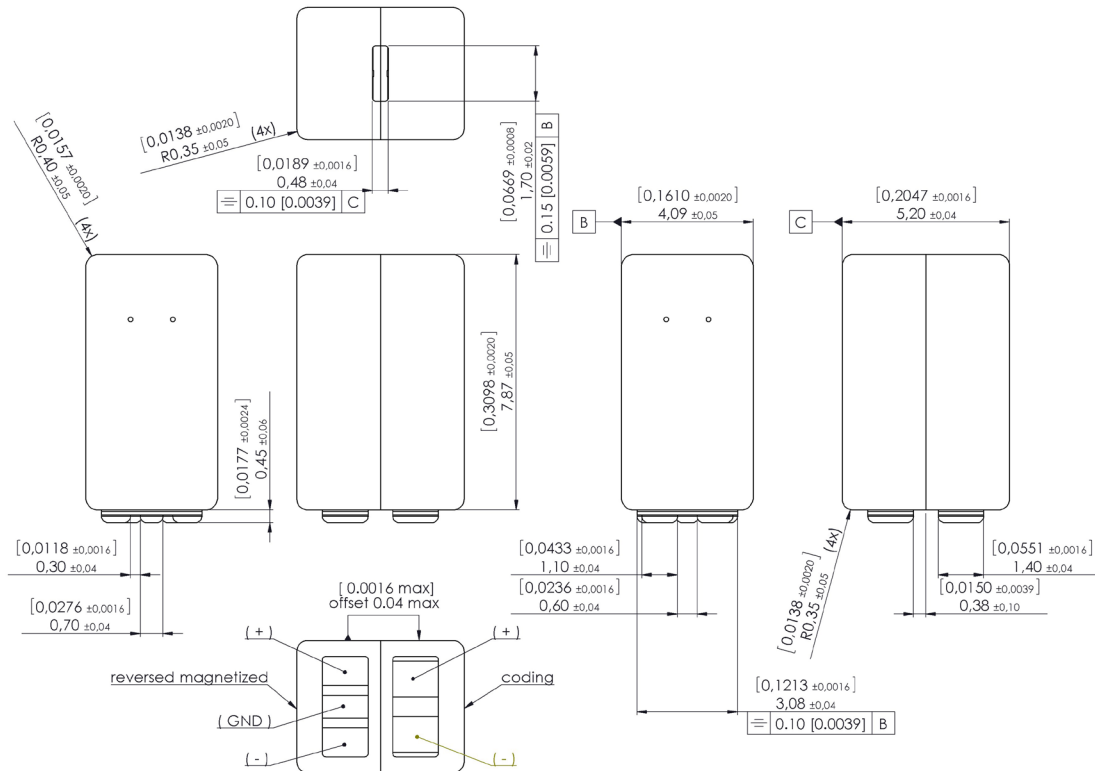
- Perfect for higher power premium BTE applications
- Tandem, twin-motor performance
- Significantly reduced mechanical vibration
- Reduced magnetic radiation
- Reduced thickness compared to standard 3300 receiver



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: 0.5 mm x 1.86 mm ID + 7.5 mm x 1 mm ID + 23 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	110.5	113.5	116.5	dB	
	@ 300 Hz	110.5	113.5	116.5	dB	
	@ 500 Hz	112	115	118	dB	
Peak 1	frequency	750	900	1050	Hz	
	output	120	122.5	125	dB	
Valley 1	frequency	1250	1500	1750	Hz	
	output	108.5	111		dB	
Peak 2	frequency	1800	2000	2200	Hz	
	output	114.5	117	119.5	dB	
Valley 2	frequency	2450	2700	2950	Hz	
	output	104	107		dB	
Peak 3	frequency	3000	3300	3600	Hz	
	output	109	112	115	dB	
Valley 3	frequency	3550	3800	4050	Hz	
	output	103	105.5		dB	
Peak 4	frequency	4000	4250	4500	Hz	
	output	106.5	109.5	112.5	dB	
Valley 4	frequency	4600	4900	5200	Hz	
	output	98.5	101		dB	
Peak 5	frequency	4850	5250	5650	Hz	
	output	99	103	107	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency		139		dB	@ 100 mVA input	

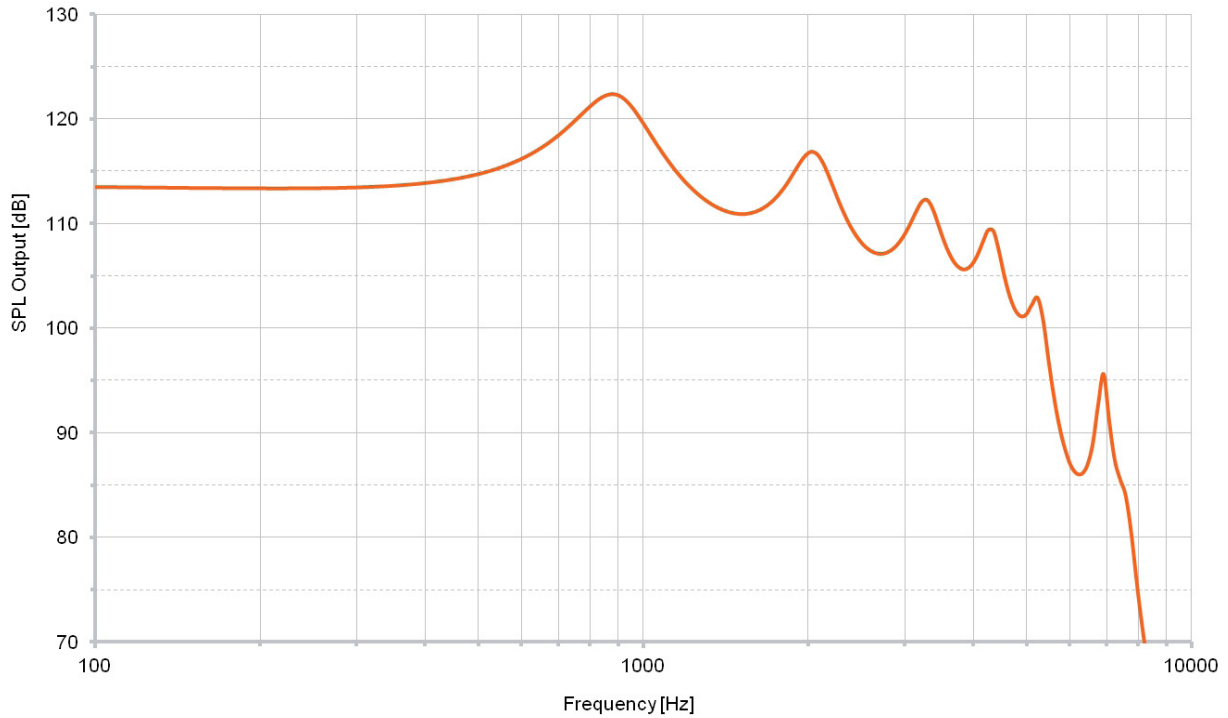
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz parallel	34	42	50	Ohm	
Impedance @ 1000 Hz series	134	168	202	Ohm	
Impedance @ 500 Hz parallel	27	34	41	Ohm	
Impedance @ 500 Hz series	109	136	163	Ohm	
DC resistance @ 20°C parallel	21	25	29	Ohm	
DC resistance @ 20°C series	85	100	115	Ohm	

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	

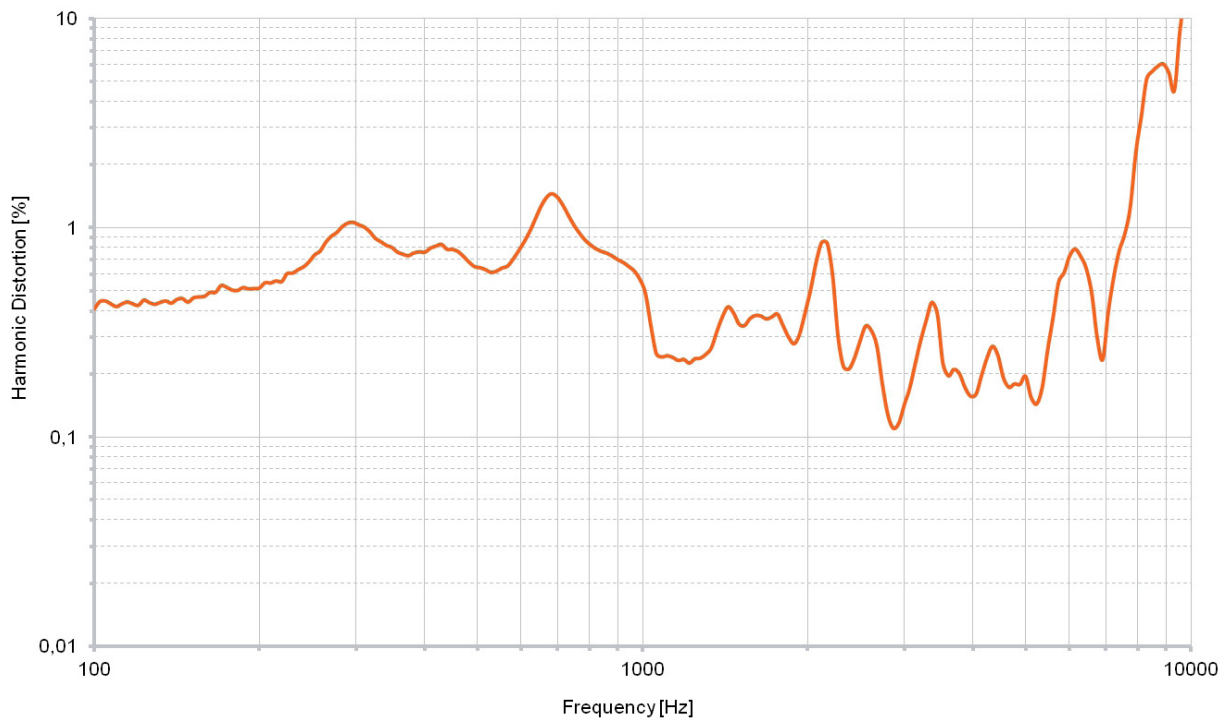
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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Typical response curve



THD vs Frequency, typical, nominal input



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