Data Sheet

Receiver 31D005/8

Description

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

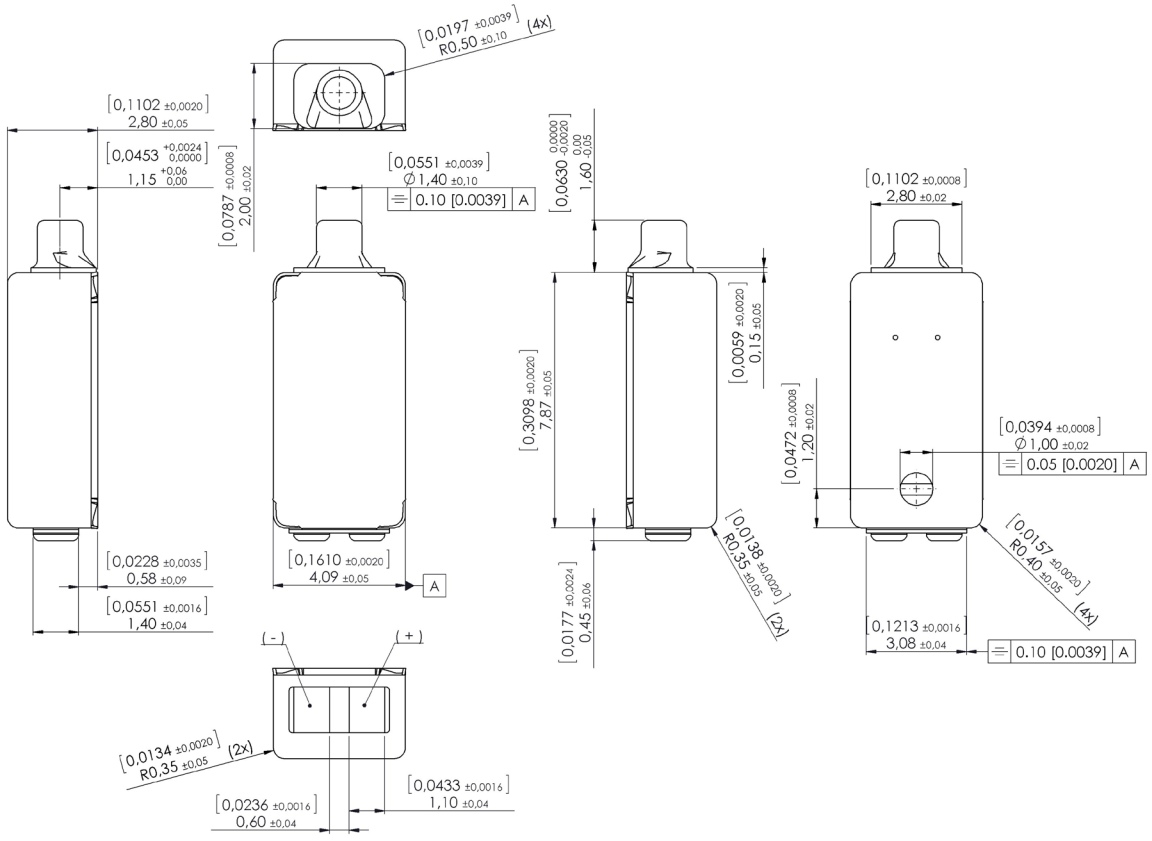
Features

- Ideal for ITE and BTE applications
- Specifically designed for digital applications
- ½ the size of a 3300 and 1900 receivers
- Broadband output
- Zero bias configurations

Mechanical data

Weight	0.31 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

The acoustic termination consist of: 11x1.9mmID + 4.5 x 1.4 mm ID into IEC 711 coupler. Drive is voltage drive of 0.092 V RMS (0.35 mVA at 500 Hz) unless specified otherwise.
Environmental conditions: 23 °C (73.4F), 50 % RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 50 Hz	112.5	115.5	118.5	dB	
	@ 300 Hz	111.4	114.4	117.4	dB	
	@ 800 Hz	108.9	111.9	114.9	dB	
	@ 1000 Hz	109.8	112.8	115.8	dB	
	@ 8000 Hz	88.3	91.3	94.3	dB	
Peak 1	frequency	1120	1370	1620	Hz	
	output	111.1	114.1	117.1	dB	
Valley 1	frequency	2969	3219	3469	Hz	
	output	102.2	105.2		dB	
Peak 2	frequency	4207	4557	4907	Hz	
	output	107.3	110.3	113.3	dB	
Valley 2	frequency	5030	5430	5830	Hz	
	output	102.8	106.8		dB	
THD	@ 1/3 peak		1.5	5	%	
	@ 1/2 peak		1.5	5	%	
Maximum output @ peak frequency		130			dB	@ 100 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	52.8	65.9	79.1	Ohm	
Impedance @ 500 Hz	30.4	38	45.6	Ohm	
DC resistance @ 20°C	20.7	24.3	28	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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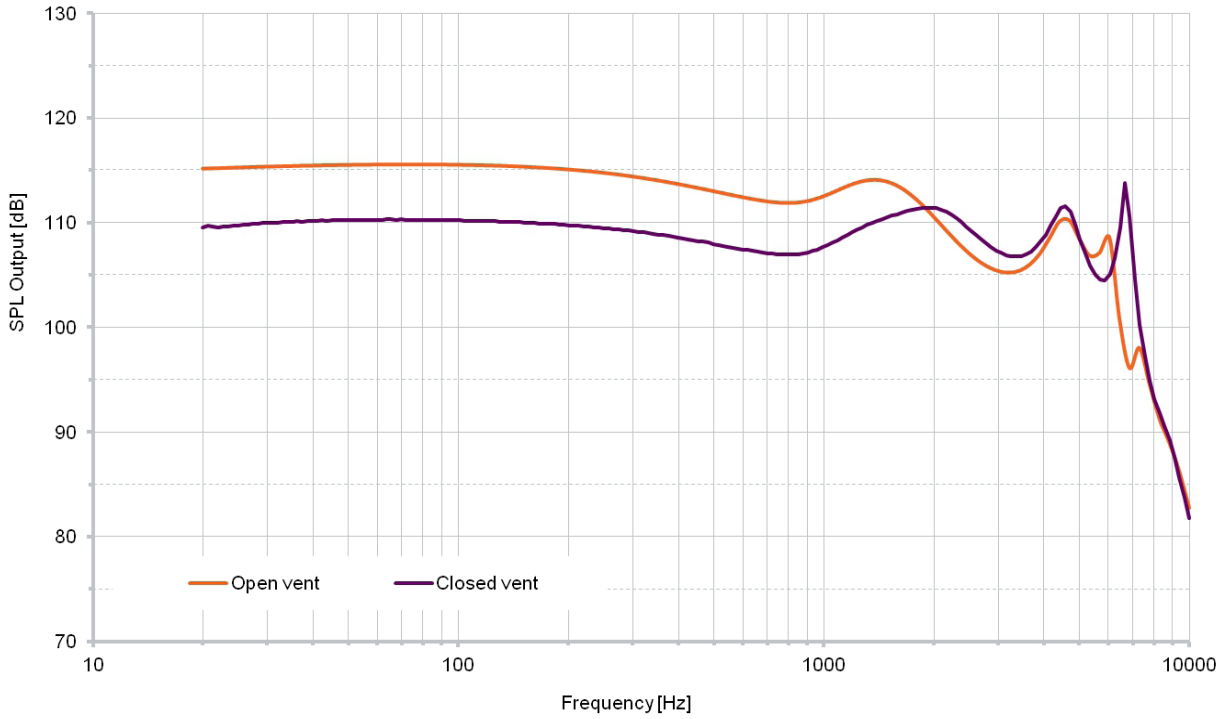
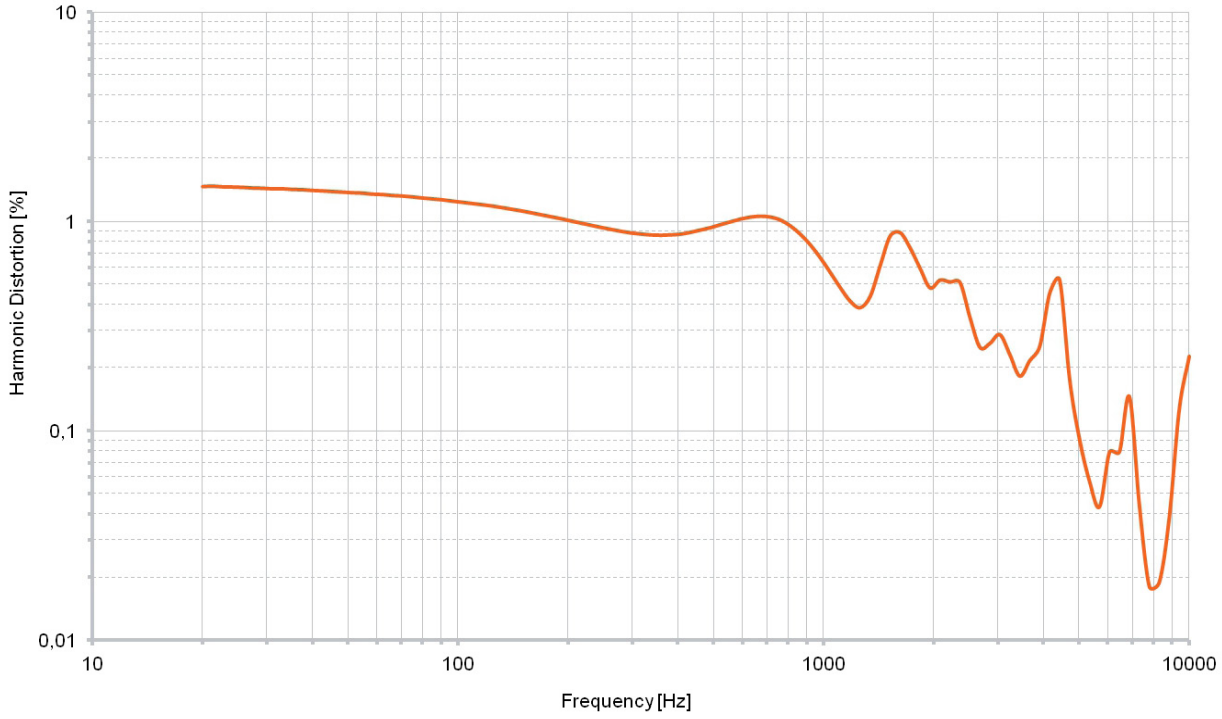
Typical response curve



THD vs Frequency, typical, nominal input



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