

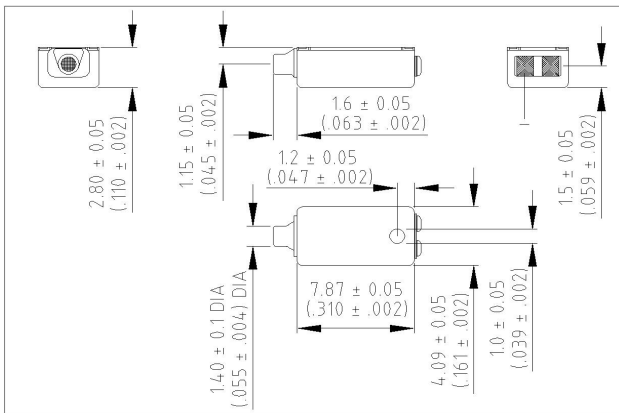
Description

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

Features

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

Dimensions in mm (inch)

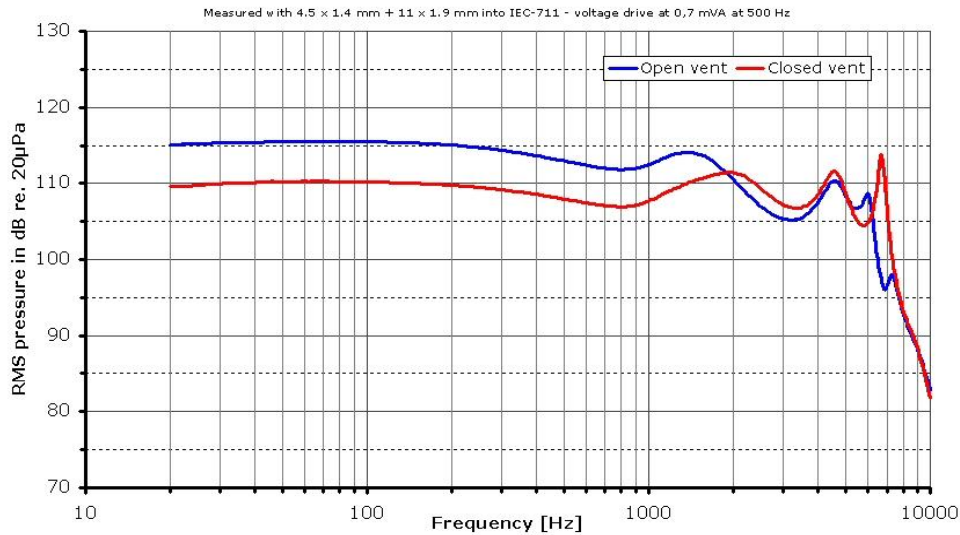


Mechanical Data

Weight	0.31 gr.
Case material	Ni80Mb5Fe15
Solder pad content	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

Typical response curve

Refer to specifications section for measurement conditions.



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.

Data Sheet



receiver 31D005/8

3310 - 3014839
Version: 1 18-JUN-2010

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		Mn	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

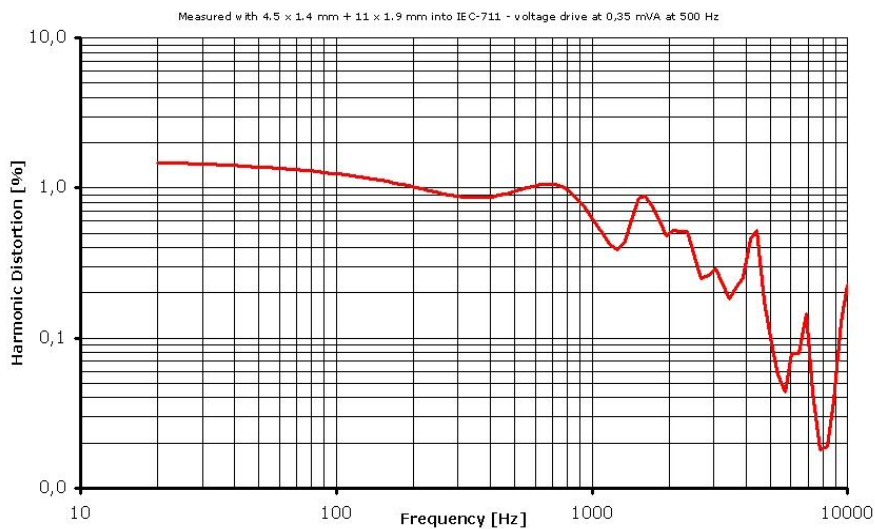
Electric parameters		Mn	Typ	Max	Unit	Comments
Impedance @ 1000 Hz		52.8	65.9	79.1	Ohm	
Impedance @ 500 Hz		30.4	38	45.6	Ohm	
DC resistance @ 20 °C		20.7	24.3	28	Ohm	
DC bias current range		zero bias				

Additional parameters		Mn	Typ	Max	Unit	Comments
Shock resistance		12000			g	90% survival rate with THD @ 1/2 peak freq. < 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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THD vs Frequency, typical, nominal input



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