

Data Sheet



receiver 35A029

3350 - 3017775
Version:1 17-OCT-2008

Description

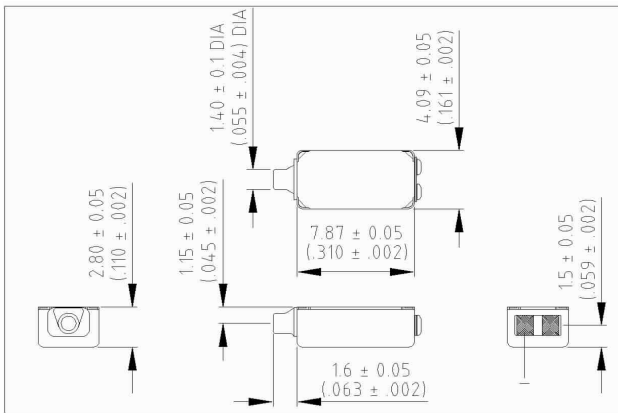
Miniature magnetic receiver (balanced armature type) for use in hearing aids.

Features

- Ideal for ITE and BTE applications
- Specifically designed for digital applications
- 1/2 the size of a 3300 and 1900 receivers
- Broadband output
- Zero bias configurations



Dimensions in mm (inch)

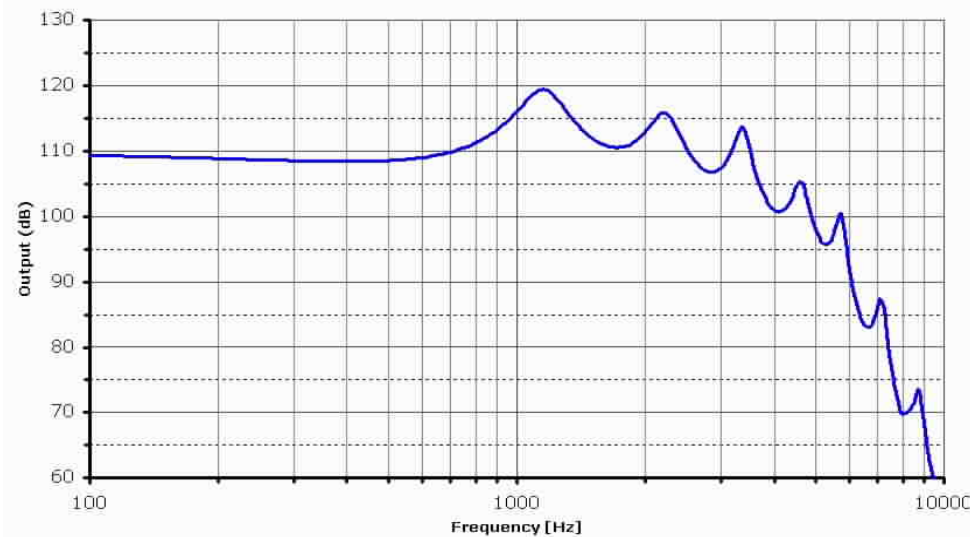


Mechanical Data

Weight 0.31 gr.
Case material Ni80Fe15Mo5
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.

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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 0.22 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	@ 200 Hz	106.5	109.5	112.5	dB	
	@ 300 Hz	106	109	112	dB	
	@ 500 Hz	106	109	112	dB	
Peak 1	frequency	1000	1150	1300	Hz	
	output	117	119.5	122	dB	
Valley 1	frequency	1450	1700	1950	Hz	
	output	108	111		dB	
Peak 2	frequency	1950	2150	2350	Hz	
	output	113	115.5	118	dB	
Valley 2	frequency	2600	2850	3100	Hz	
	output	103.5	106.5		dB	
Peak 3	frequency	3050	3350	3650	Hz	
	output	110	112.5	115	dB	
Valley 3	frequency	3800	4050	4300	Hz	
	output	97.5	100.5		dB	
Peak 4	frequency	4350	4650	4950	Hz	
	output	101.5	104.5	107.5	dB	
Valley 4	frequency	5050	5300	5550	Hz	
	output	92	95		dB	
Peak 5	frequency	5350	5750	6150	Hz	
	output	96	99.5	103	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			138		dB	SPL @ 100 mVA

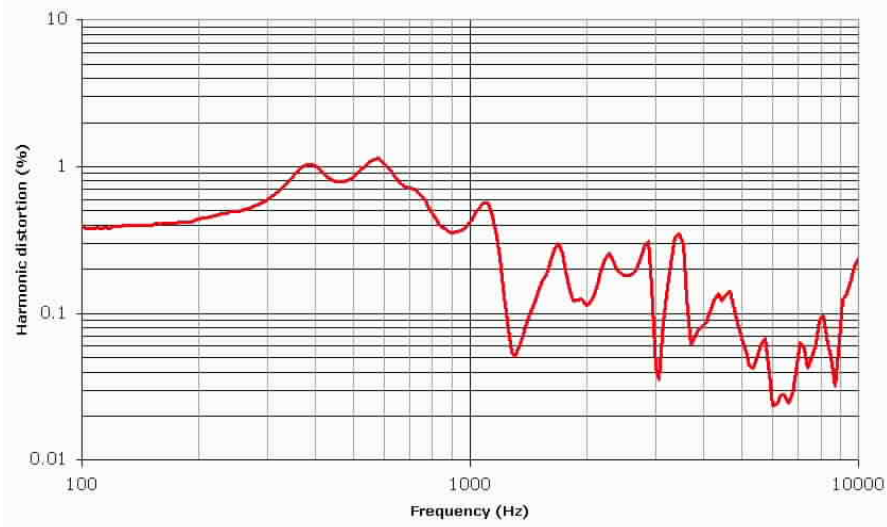
Electric parameters		Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz		256	320	384	Ohm	
Impedance @ 500 Hz		109	136	163	Ohm	
DC resistance @ 20 °C		78	92	106	Ohm	

Additional parameters		Min	Typ	Max	Unit	Comments
Shock resistance		8000			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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