

Data Sheet



receiver 32A004

3320 - 3015349
Version: 1 20-AUG-2007

Description

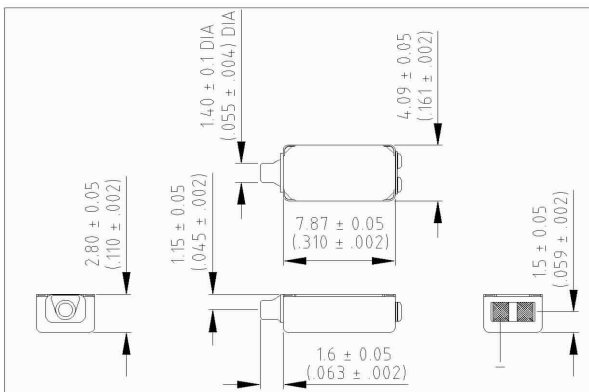
Miniature magnetic receiver (balanced armature type) for use in hearing aids.



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

Dimensions in mm (inch)

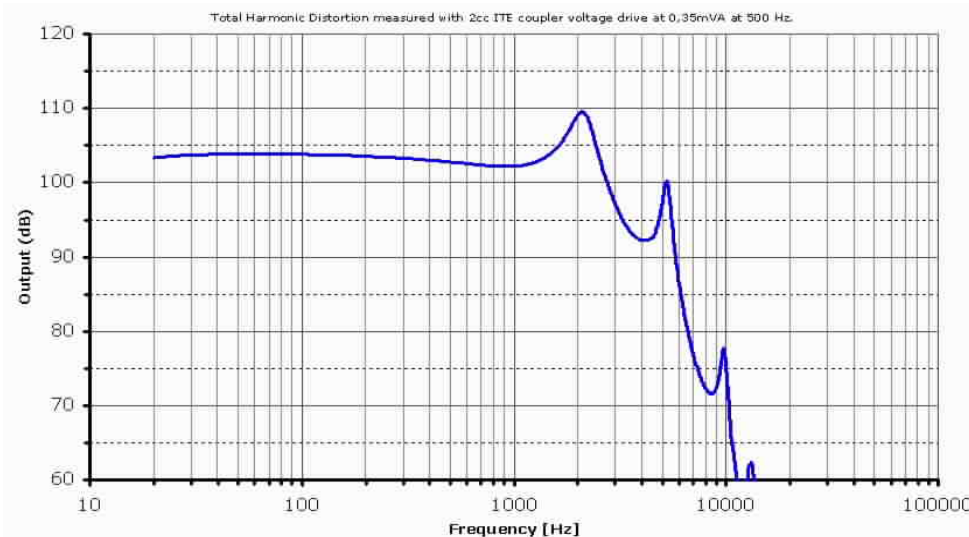


Mechanical Data

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.

Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.
Drive is voltage drive of 0.10 V RMS (0.35 mVA at 500 Hz) unless specified otherwise.
Environmental conditions: 23 °C (73.4F), 50 % RH

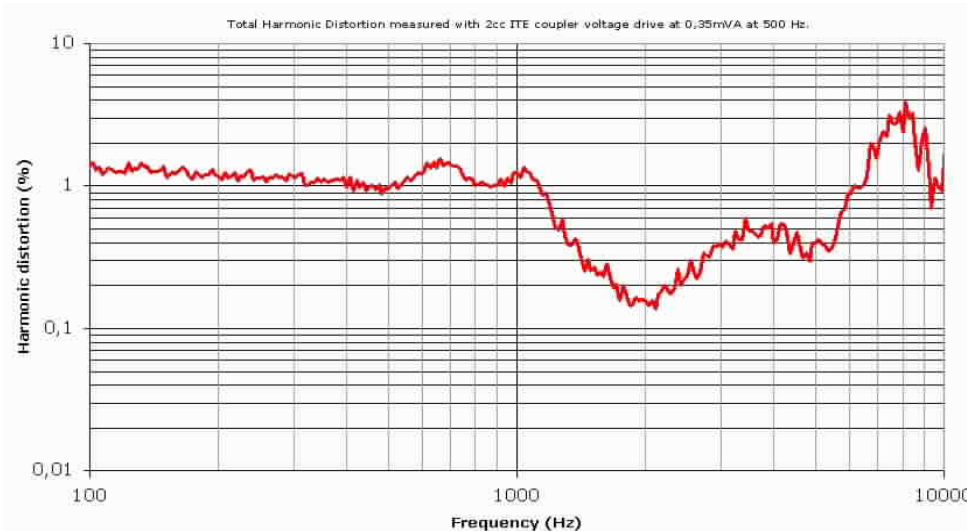
Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	102.5	105.5	108.5	dB	
	@ 300 Hz	102	105	108	dB	
	@ 500 Hz	101.5	104.5	107.5	dB	
Peak 1	frequency	1900	2150	2400	Hz	
	output	107	109.5	112	dB	
Valley 1	frequency	3900	4150	4400	Hz	
	output	90.5	93.5		dB	
Peak 2	frequency	5025	5225	5425	Hz	
	output	97.5	100.5	103.5	dB	
Valley 2	frequency	8300	8700	9100	Hz	
	output	68	71		dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			125		dB	100 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	34	43	52	Ohm	
Impedance @ 500 Hz	24	30	36	Ohm	
DC resistance @ 20 °C	22	25	29	Ohm	

Additional parameters	Min	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.

THD vs Frequency



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