

# Data Sheet



receiver 32D004i

3320 - 3022647  
Version: 1 07-JAN-2011

## Description

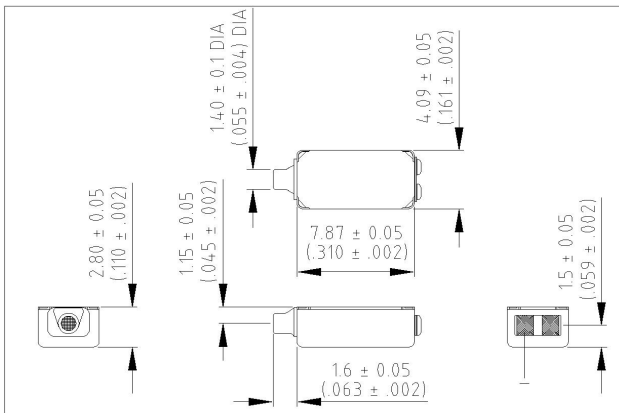
Miniature magnetic receiver (balanced armature type) for use in In The Ear applications.

## Features

- Wide band response
- Type I damping



## Dimensions in mm (inch)

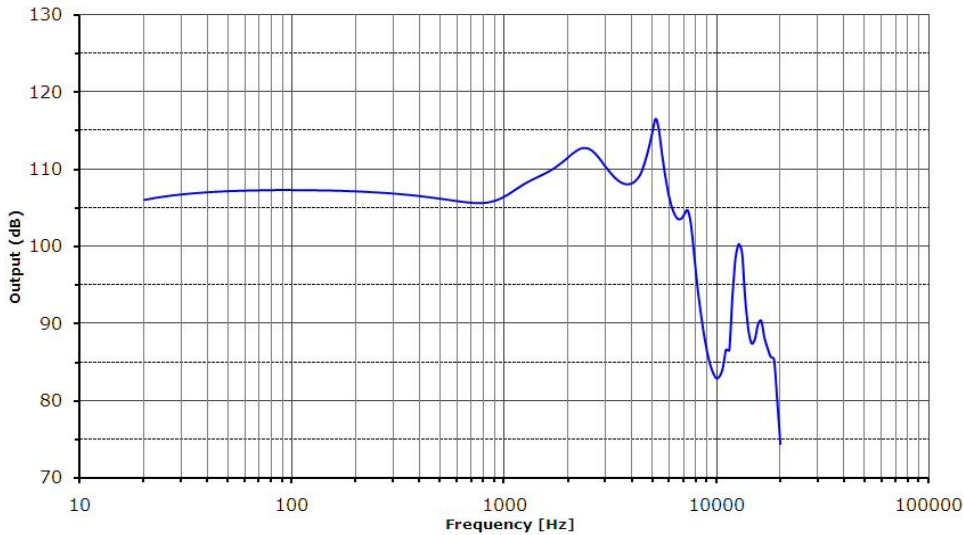


## Mechanical Data

Weight	0.31 gr.
Case material	Ni80Fe15Mb5
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 consist of: 11x1.9mmID + 4.5 x 1.4 mm ID into IEC 711 coupler.  
 Drive is voltage drive of 0.105 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	@ 30 Hz	103.5	106.5	109.5	dB	
	@ 100 Hz	104.5	107.5	110.5	dB	
	@ 200 Hz	104	107	110	dB	
	@ 500 Hz	103	106	109	dB	
	@ 1000 Hz	103.5	106.5	109.5	dB	
Peak 1	frequency	2100	2400	2700	Hz	
	output	109.5	112.5	115.5	dB	
Valley 1	frequency	3500	3800	4100	Hz	
	output	105	108		dB	
Peak 2	frequency	4850	5200	5550	Hz	
	output	113.5	116.5	119.5	dB	
Valley 2	frequency	9700	10500	11300	Hz	
	output	76	82		dB	
THD	@ 1/3 peak		0.5	5	%	
	@ 1/2 peak		0.5	5	%	
Maximum output @ peak frequency			129		dB	50 mVA input

Electric parameters	Mn	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	36	45	54	Ohm	
Impedance @ 500 Hz	25.6	32	38.4	Ohm	
DC resistance @ 20 °C	21.3	25	28.8	Ohm	
DC bias current range					

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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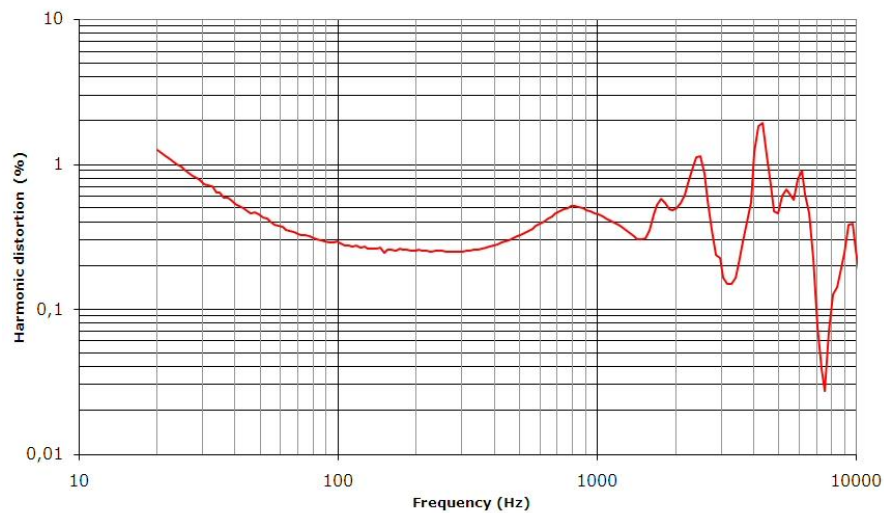
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## THD vs Frequency, typical, nominal input



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