Data Sheet

Receiver 32D004i

Description

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

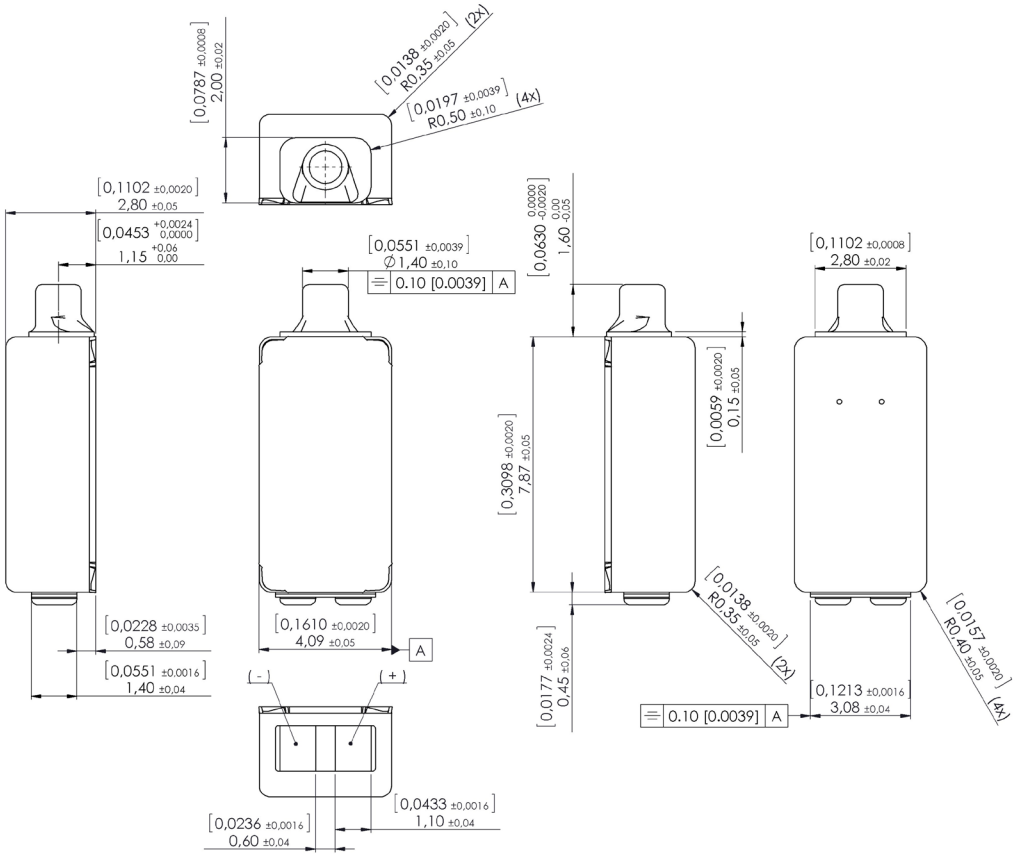
Features

- Wide band response
- Type I damping

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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Item-Configuration number: 3320-3022647
Version: 1
Version date 07-Jan-2011

Specifications

The acoustic termination consist of: 11 x 1.9mm ID + 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		Min	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	Min	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	

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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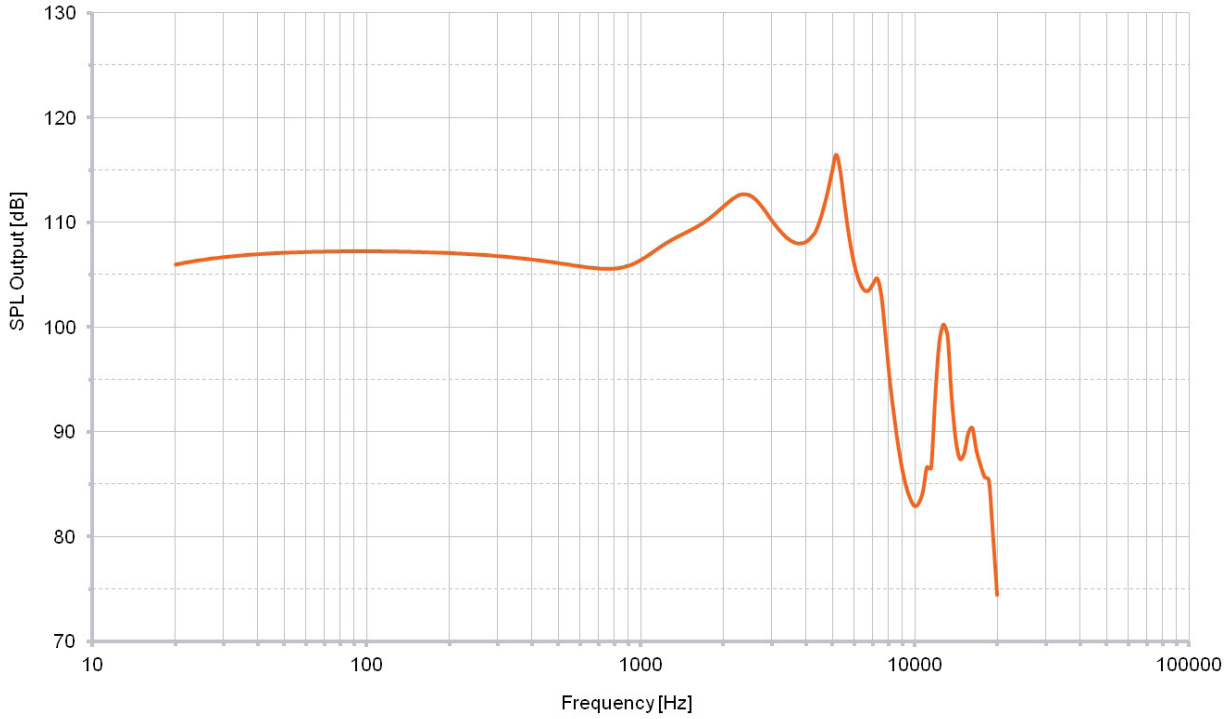
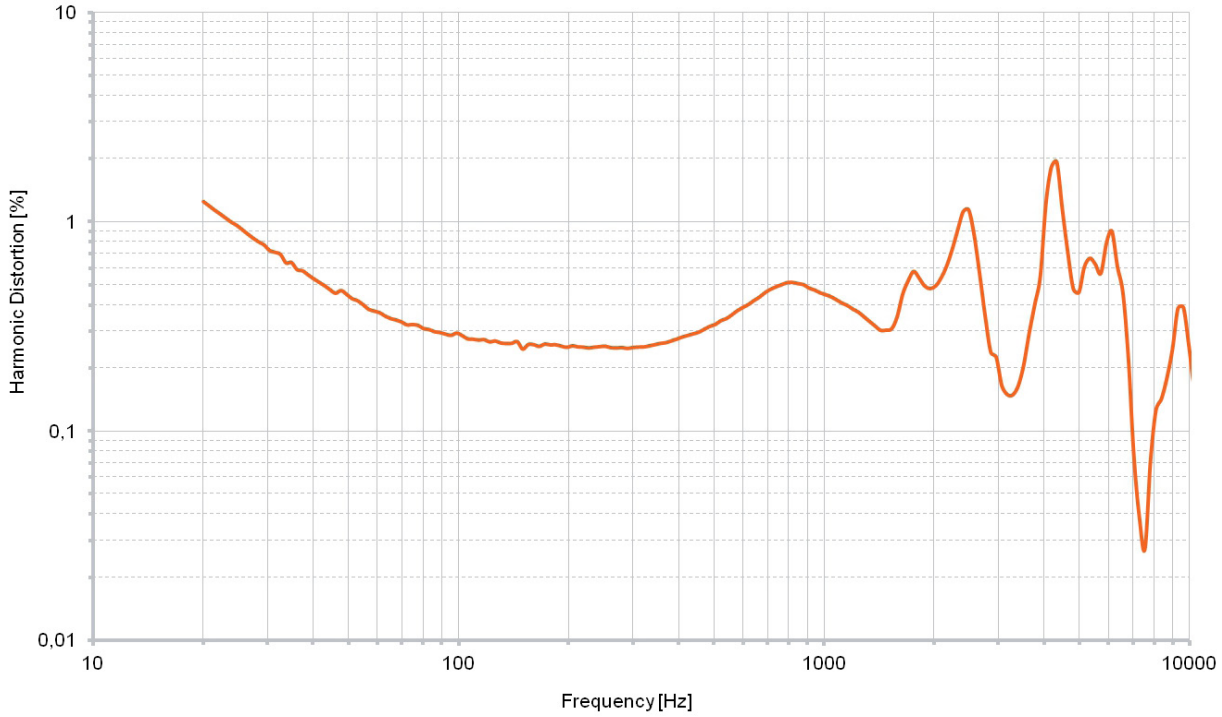
Typical response curve



THD vs Frequency, typical, nominal input



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