Data Sheet

Receiver 36A007/8c

Description

Miniature magnetic receiver (Balanced Armature Type) for use in hearing aids

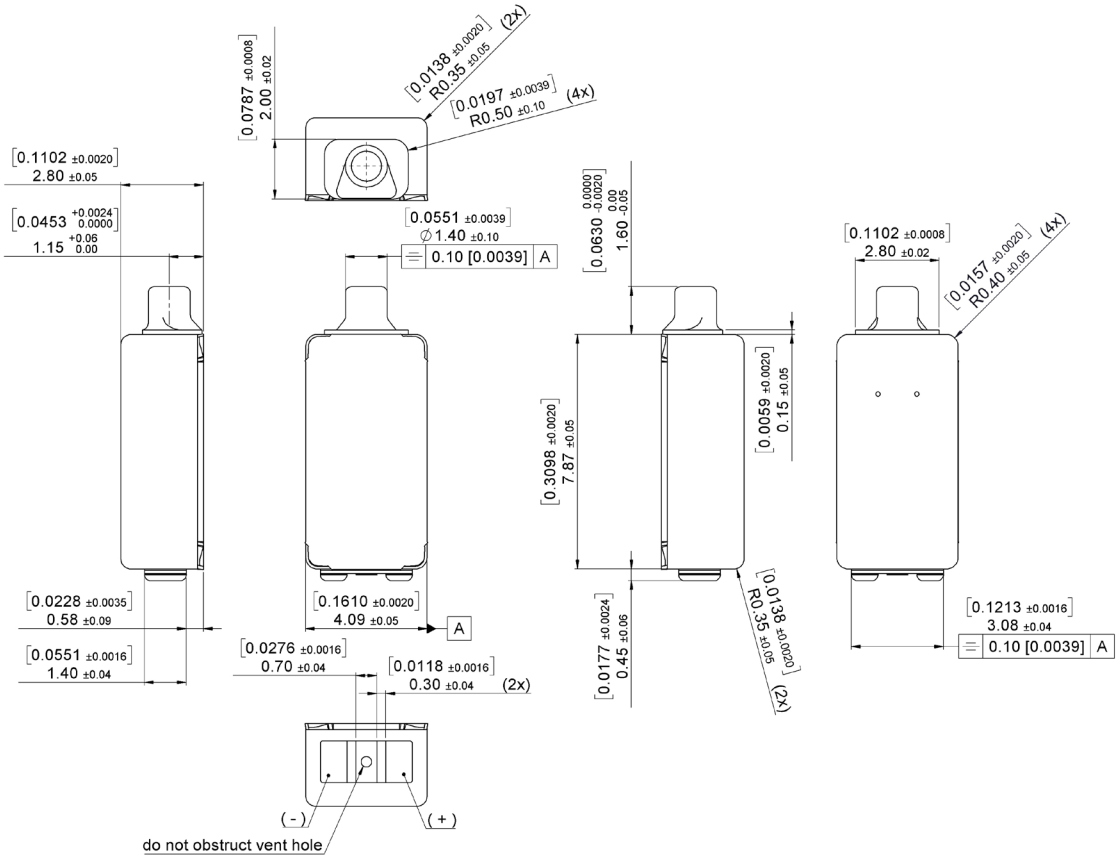
Features

- Small real woofer/ low midrange for multiway in ear monitor applications
- Half the size of the 3800 dual
- High output: 126 dB at 200Hz / 5% THD
- Design with large back vent

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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Version: 1
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Specifications

The acoustic termination consist of: 4.5 x 1.4 mm ID + 11 x 1.9 mm ID + into IEC 711 coupler. Drive is voltage drive of 100 mV rms unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 30 Hz	118	121	124	dB	
	@ 100 Hz	118.5	121	123.5	dB	
	@ 500 Hz	115.5	118	120.5	dB	
	@ 1000 Hz	116.5	119	121.5	dB	
Peak 1	frequency	1000	1150	1300	Hz	
	output	116.5	119.5	122.5	dB	
Valley 1	frequency	2950	3350	3750	Hz	
	output	98.5	101.5		dB	
Peak 2	frequency	4650	4900	5150	Hz	
	output	110	113	116	dB	
THD	@ 1/3 peak		2	5	%	
	@ 1/2 peak		2	5	%	
Rated power			10		mVA	
Max. output @ 200 Hz - THD <5%			126		dB	@ ~200 mV input voltage

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	48	60	72	Ohm	
Impedance @ 500 Hz	36	45	54	Ohm	
DC resistance @ 20°C	21.3	25	28.8	Ohm	

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	8000			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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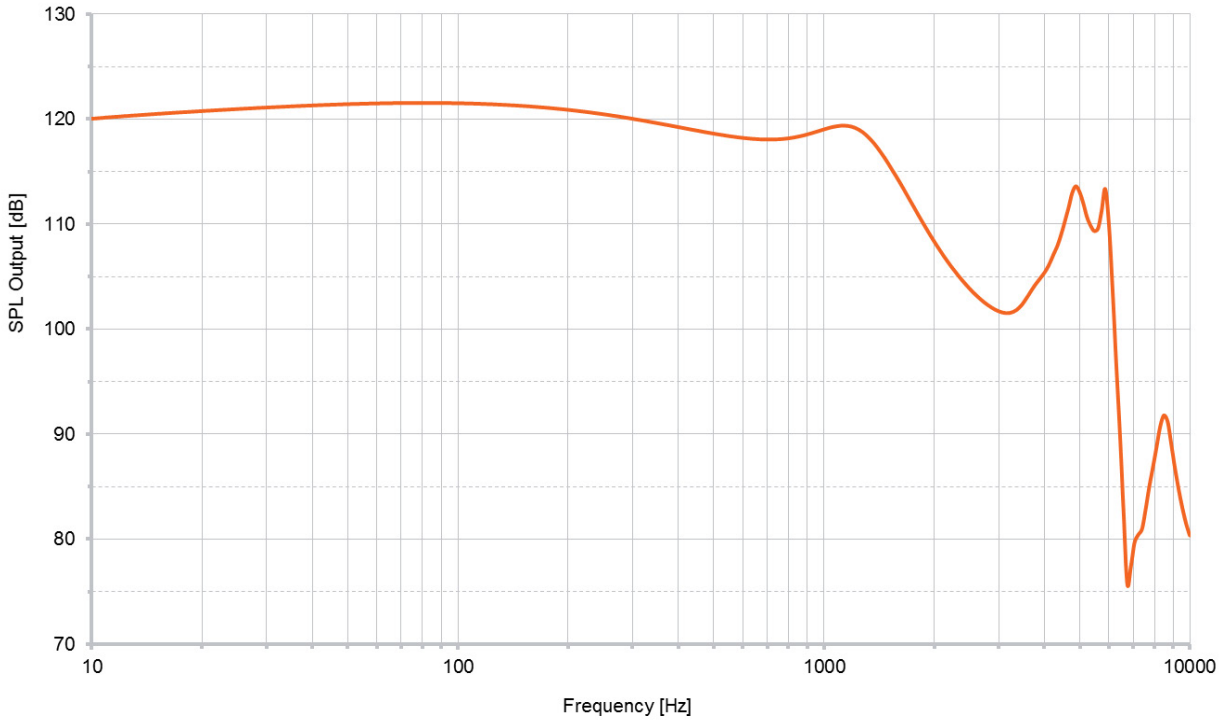
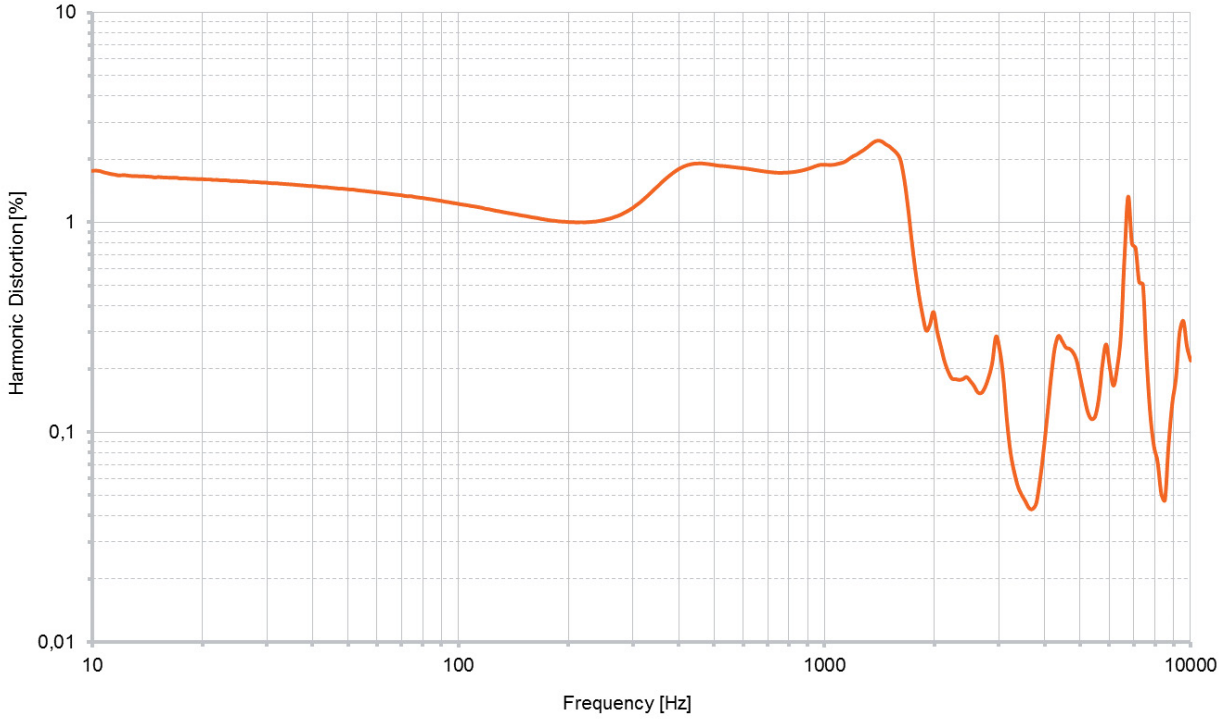
Typical response curve



THD vs Frequency, typical, nominal input



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