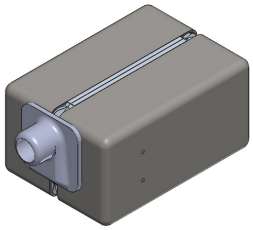
Data Sheet

Receiver 38AJ007Mi/8a

Description

Miniature magnetic receiver (balanced armature type) for use in Advanced Audio applications.



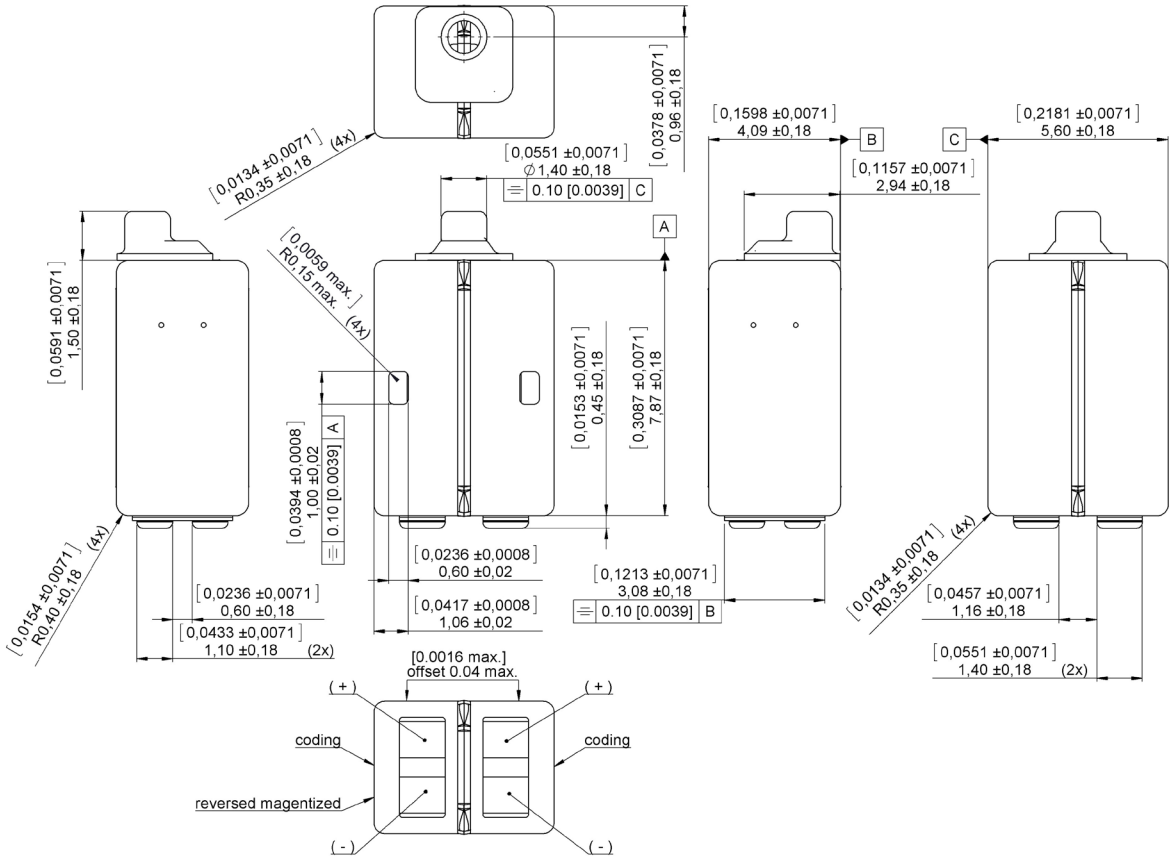
Features

- Ideal for use as woofer in multi-way receiver IEM applications
- Tandem, twin-motor performance
- Large style backvent for improved low frequency output of the most powerful woofer available today

Mechanical data

Weight	0.60 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: 3380-3104659
Version: 2
Version date 17-Jun-2014

Specifications

The acoustic termination consist of: 4.5 x 1.4 mm ID + 11x1.9mm ID into IEC 711 coupler.
Drive is voltage drive of 100 mV at 200Hz unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Open vents			Closed vents			Unit	Comments
		Min	Typ	Max	Min	Typ	Max		
Sensitivity	@ 30 Hz	123	126	129	114.5	117.5	120.5	dB	
	@ 200 Hz	123	126	129	114.5	117.5	120.5	dB	
	@ 600 Hz	121	124	127	113	116	119	dB	
Peak 1	frequency	950	1100	1250	1200	1350	1500	Hz	
	output	125	127.5	130	120	122.5	125	dB	
Valley 1	frequency	2750	3000	3250	2950	3200	3450	Hz	
	output	106	109		107.5	110.5		dB	
Peak 2	frequency	3900	4100	4300	4150	4350	4550	Hz	
	output	114.5	117	119.5	116.5	119	121.5	dB	
THD	@ 1/3 peak			5			5	%	@ 0.16V open, @ 0.22V closed
	@ 1/2 peak			5			5	%	@ 0.24V open, @ 0.32V closed
Maximum output @ peak frequency			136.5			136.5		dB	@ 300 mV input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz parallel	30	37	44	Ohm	open vents
Impedance @ 1000 Hz series	118	148	178	Ohm	open vents
Impedance @ 500 Hz parallel	18	23	28	Ohm	open vents
Impedance @ 500 Hz series	74	92	110	Ohm	open vents
Impedance @ 200 Hz parallel	12	15	18	Ohm	open vents
Impedance @ 200 Hz series	48	60	72	Ohm	open vents
DC resistance @ 20°C parallel	11	12.5	14	Ohm	open vents
DC resistance @ 20°C series	43	50	58	Ohm	open vents
DC bias current range	zero bias				

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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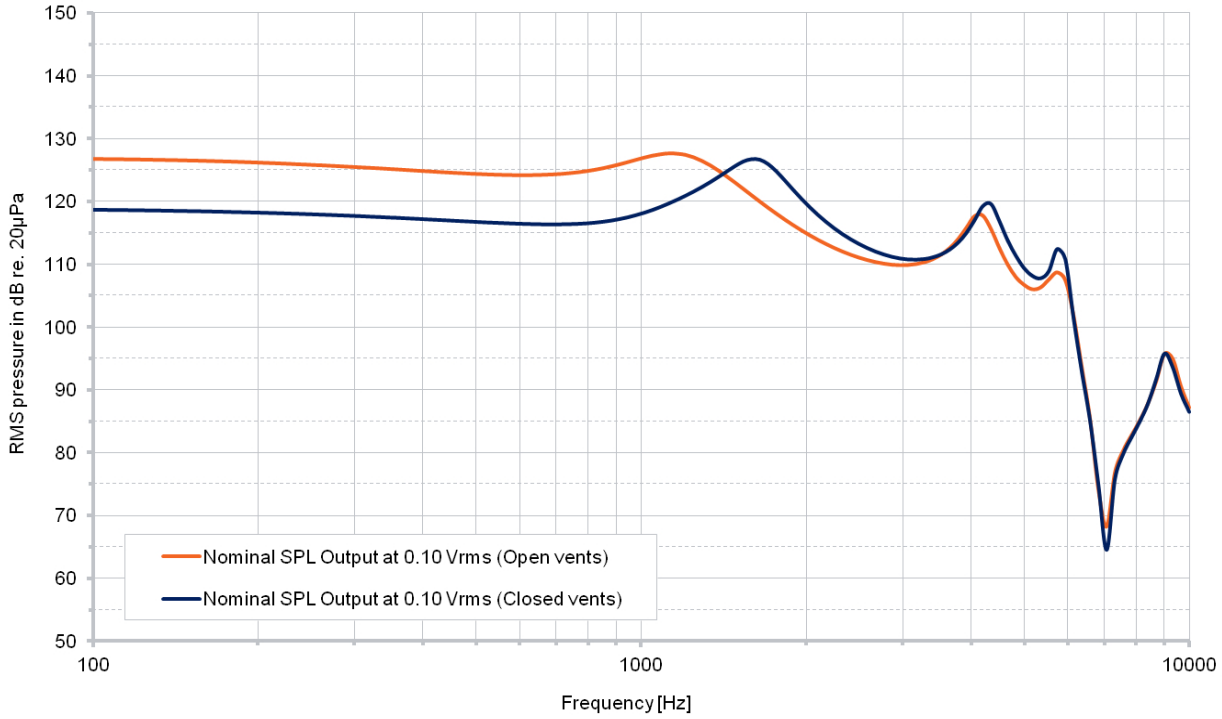
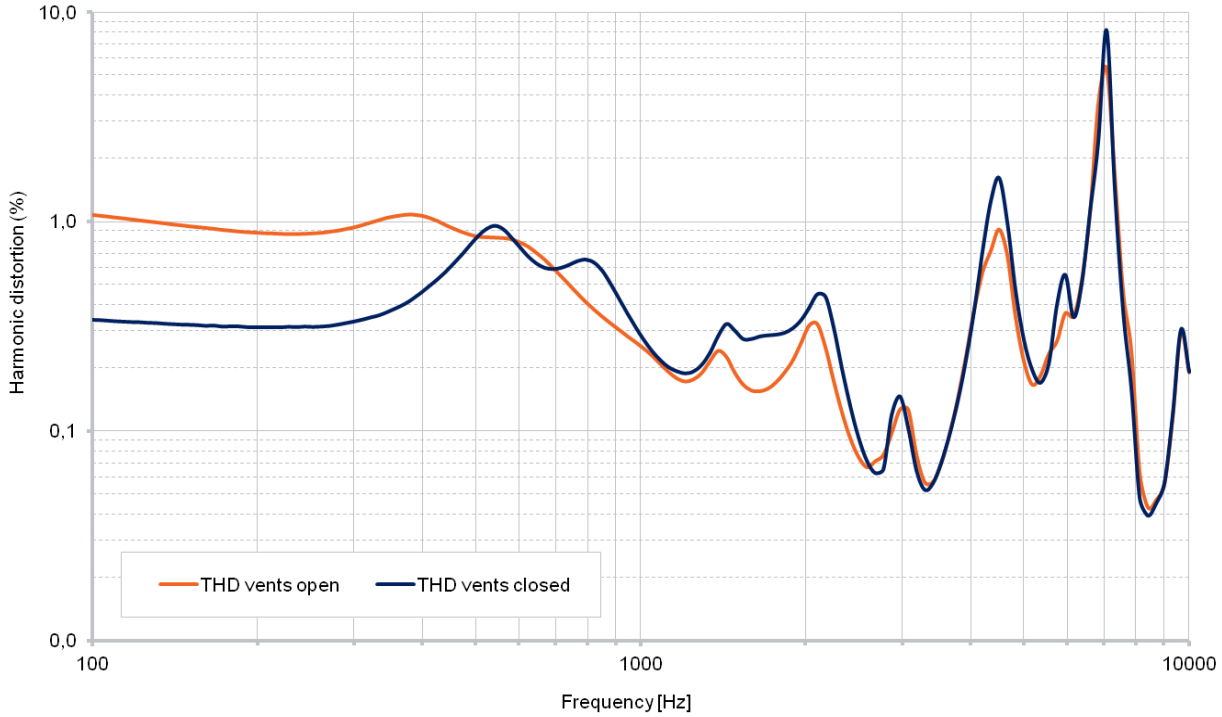
Typical response curve



THD vs Frequency, typical, nominal input



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