Data Sheet

Receiver 33AJ007i//8

Description

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

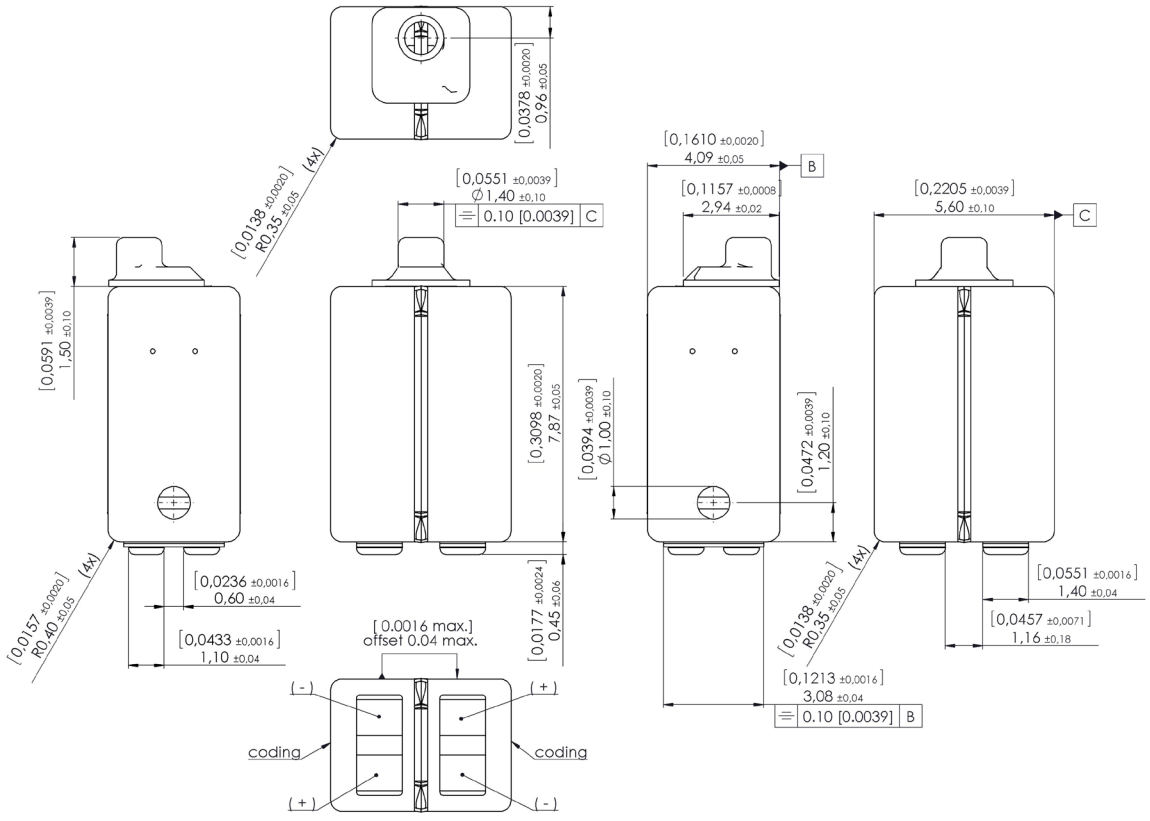
Features

- ideal for use as woofer in multiple receiver IEM applications
- Tandem, twin-motor performance
- Significantly reduced mechanical vibration
- Large style backvent

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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Version: 1
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Specifications

The acoustic termination consists of: 4.5 mm x 1.4 mm ID + 11 mm x 1.9 mm ID + IEC-711 coupler.
Drive is voltage drive of 0.100 V rms unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 20 Hz	119.5	122.5	125.5	dB	
	@ 50 Hz	120	123	126	dB	
	@ 100 Hz	120	123	126	dB	
	@ 700 Hz	118	121	124	dB	
	@ 1000 Hz	120.5	123	125.5	dB	
Peak 1	frequency	1100	1300	1500	Hz	
	output	122	125	128	dB	
Valley 1	frequency	2650	2900	3150	Hz	
	output	109	112		dB	
Peak 2	frequency	3900	4150	4400	Hz	
	output	118	121	124	dB	
Valley 2	frequency	5400	5650	5900	Hz	
	output	102	106		dB	
Peak 3	frequency	6300	6600	6900	Hz	
	output	109	114	119	dB	
THD	@ 1/3 peak		2.6	5	%	
	@ 1/2 peak		1	5	%	
Maximum output @ peak frequency		133			dB	@ 100 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	40	50	60	Ohm	
Impedance @ 500 Hz	16	20	24	Ohm	
DC resistance @ 20°C	10.2	12	13.8	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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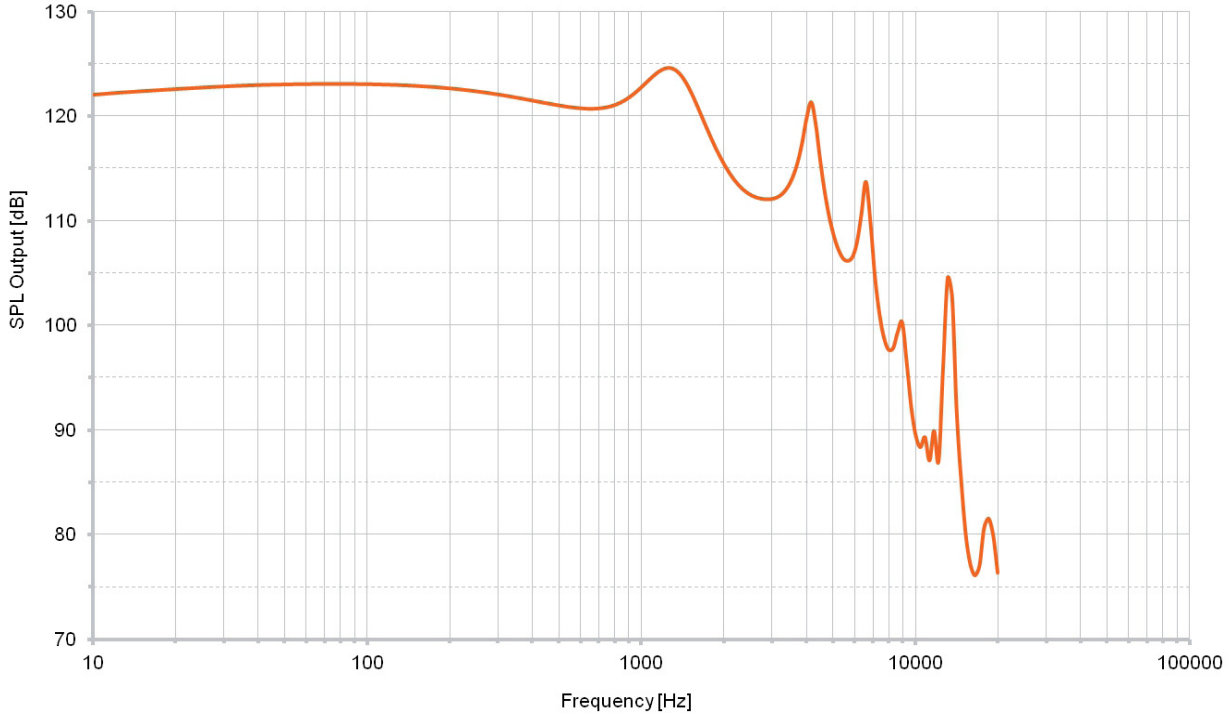
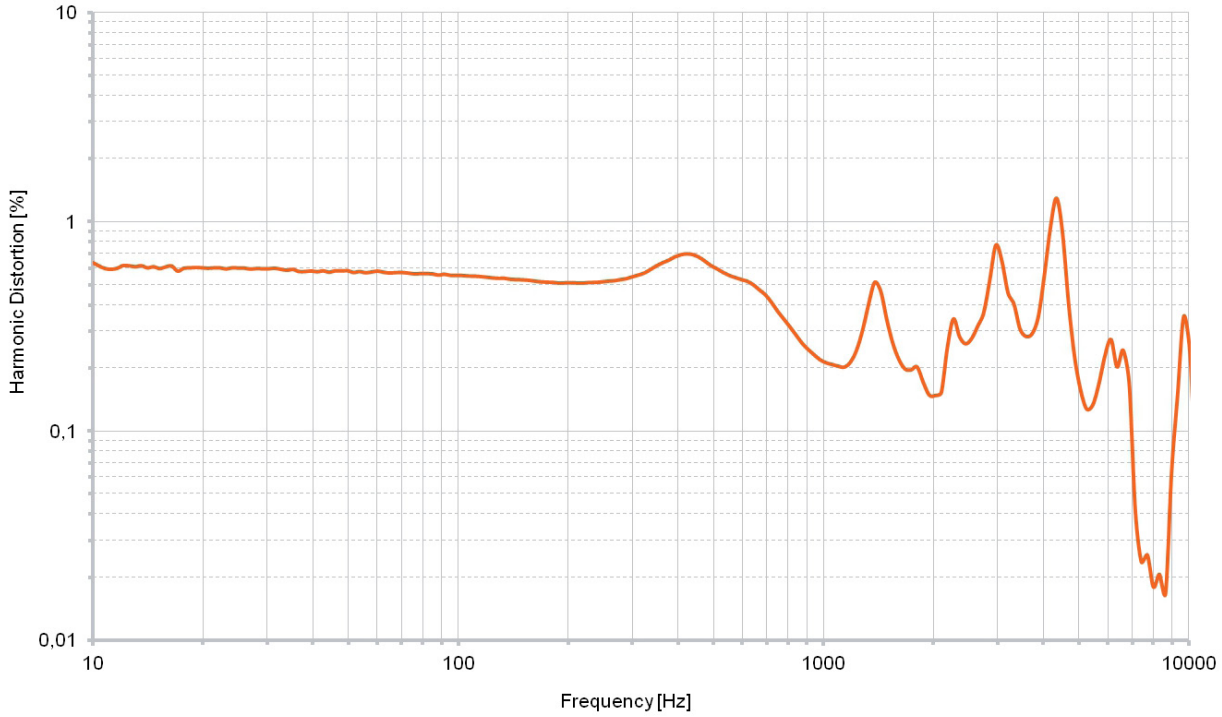
Typical response curve



THD vs Frequency, typical, nominal input



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