Data Sheet

Receiver 38D1XJ007Mi/8a

Description

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

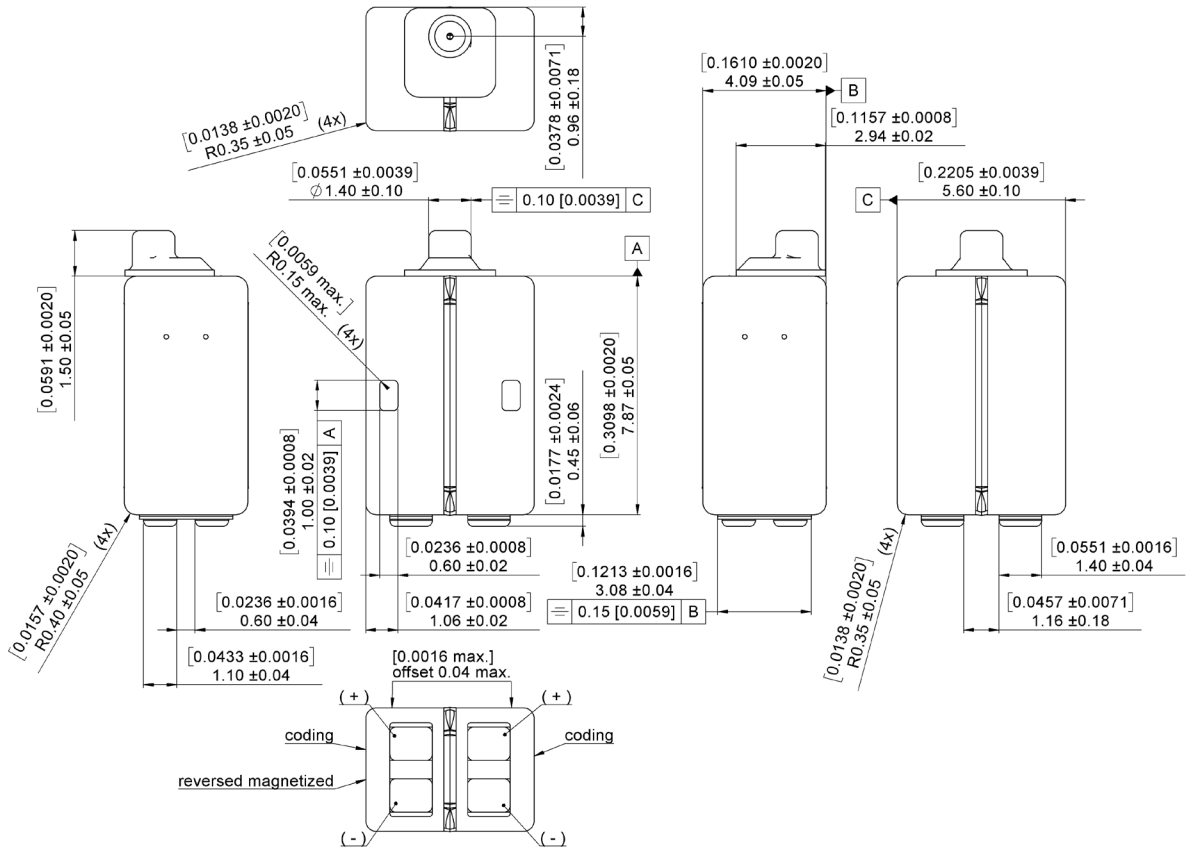
Features

- High output and high sensitivity woofer
- Acupass™ damper integrated in spout
- Ideal for use as (sub) woofer in multi-way In Ear Monitor systems

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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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 0.100 V RMS unless specified otherwise. Measured with open vent holes.
Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 30 Hz	122	125	128	dB	
	@ 100 Hz	120	122.5	125	dB	
	@ 500 Hz	107.5	110	112.5	dB	
	@ 1000 Hz	102	104.5	107	dB	
	@ 2000 Hz	97.5	100.5	103.5	dB	
THD	@ 150 Hz		2	5	%	
	@ 500 Hz		3	5	%	
Maximum output @ 50 Hz THD <5%			132		dB	Corresponding input ~200 mV

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	18	22.5	27	Ohm	
Impedance @ 500 Hz	14	17.5	21	Ohm	
DC resistance @ 20°C	10.6	12.5	14.4	Ohm	
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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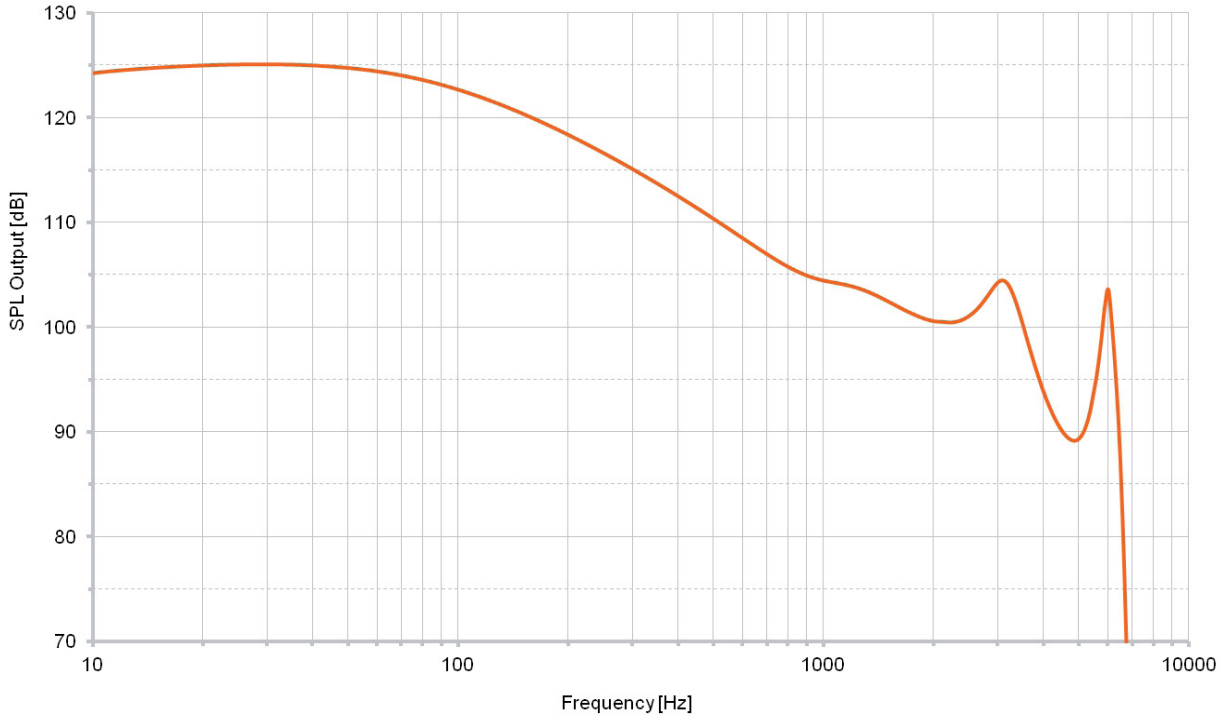
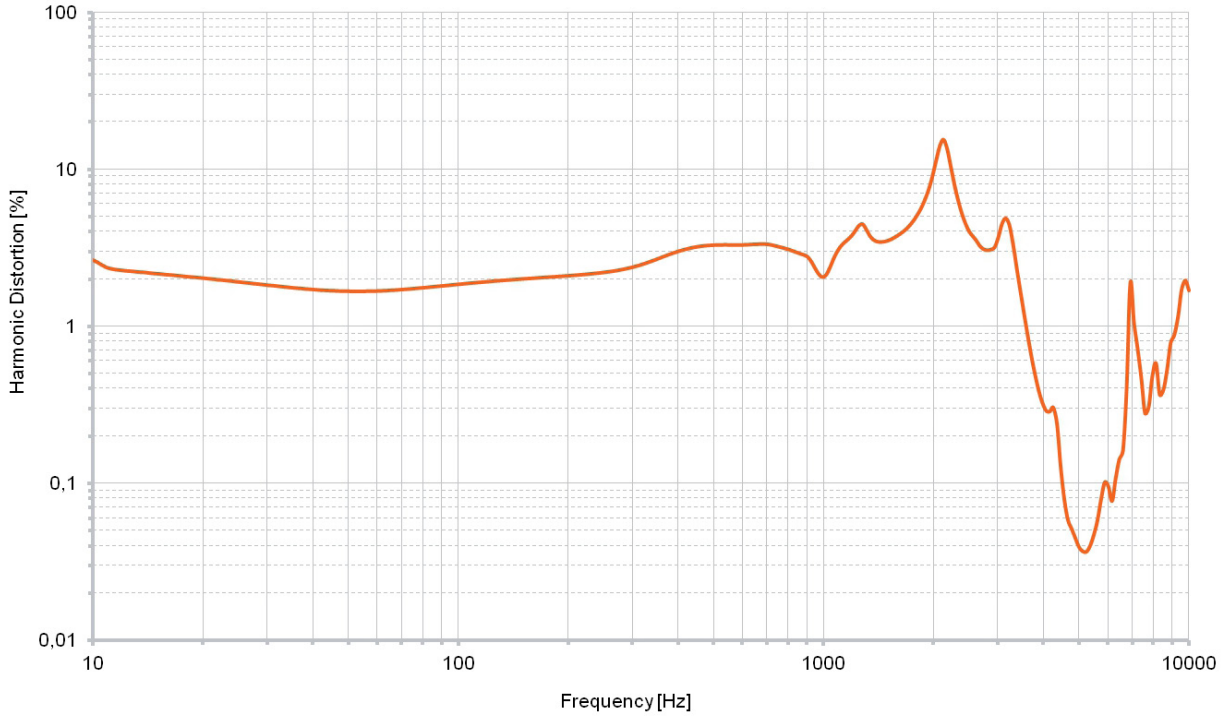
Typical response curve



THD vs Frequency, typical, nominal input



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