Description

Subminiature magnetic receiver (Balanced Armature Type) for use in In The Ear applications.

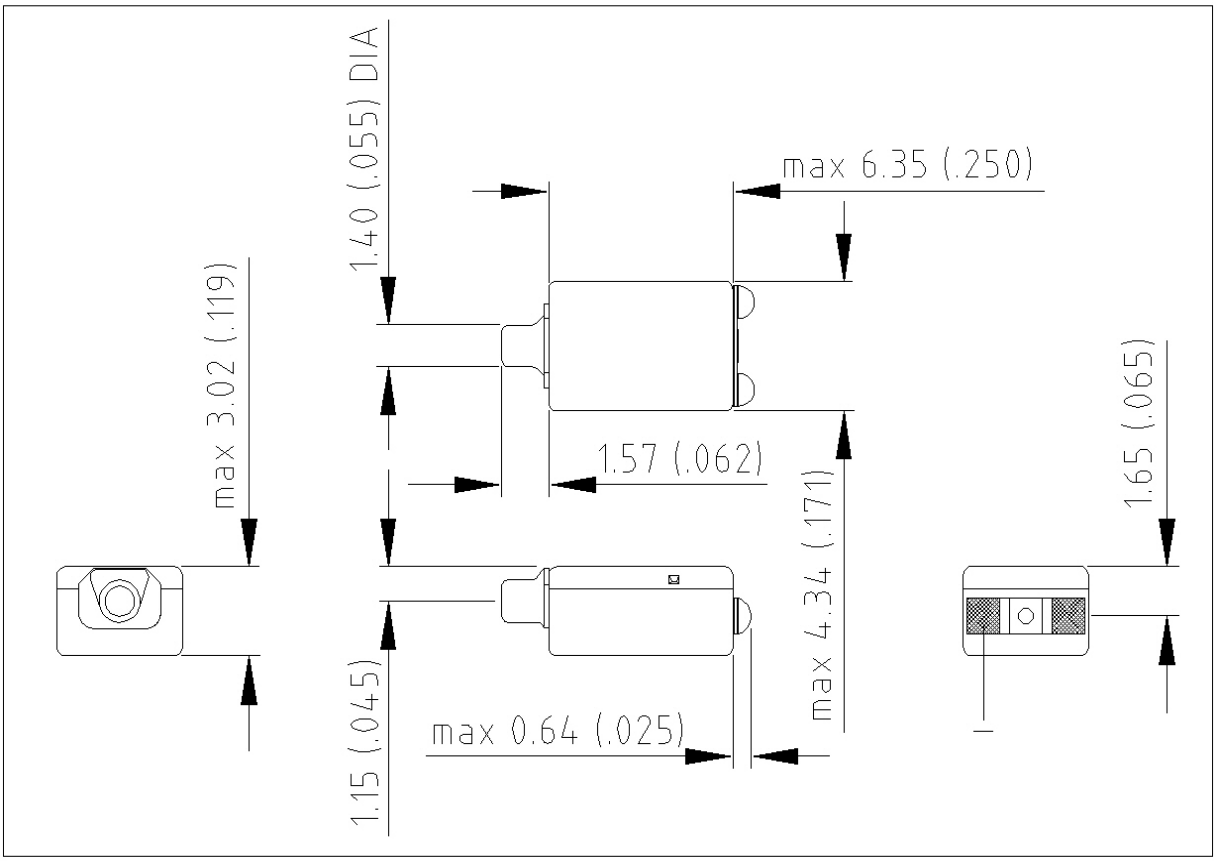
Features

- Wide band response
- Improved low frequency output by venting
- Improved shock performance

Mechanical data

Weight	0.34 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 with open vent unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 30 Hz	113	116	119	dB	
	@ 200 Hz	112	115	118	dB	
	@ 500 Hz	109	112	115	dB	
	@ 1000 Hz	107	110	113	dB	
Peak 1	frequency	2100	2400	2700	Hz	
	output	116	119	122	dB	
Valley 1	frequency	3450	3800	4150	Hz	
	output	107	110		dB	
Peak 2	frequency	4300	4800	5300	Hz	
	output	114	117	120	dB	
Valley 2	frequency	6500	7200	7900	Hz	
	output	96	100		dB	
Peak 3	frequency	7500	8500	9500	Hz	
	output	102	107	112	dB	
THD	@ 1/3 peak		1.5	5	%	
	@ 1/2 peak		1.5	5	%	
Maximum output @ peak frequency			138		dB	@ 100 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	36	45	54	Ohm	
Impedance @ 500 Hz	20	25	30	Ohm	
DC resistance @ 20°C	12	14	16	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	14000			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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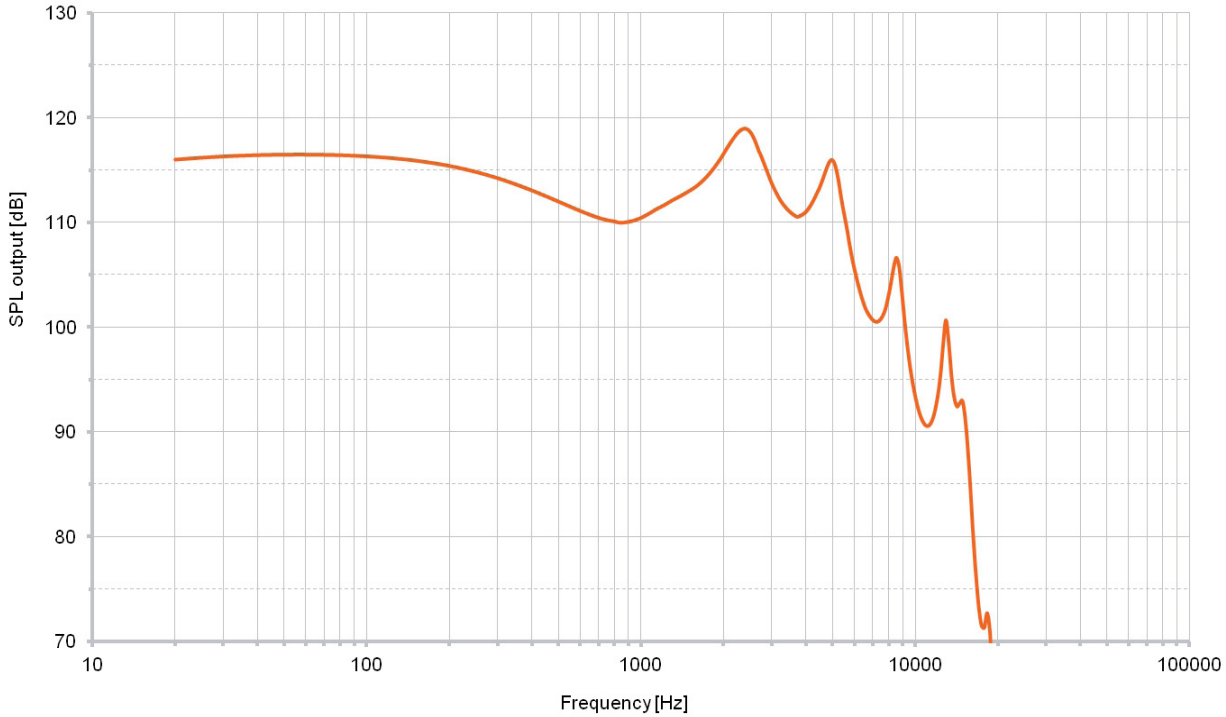
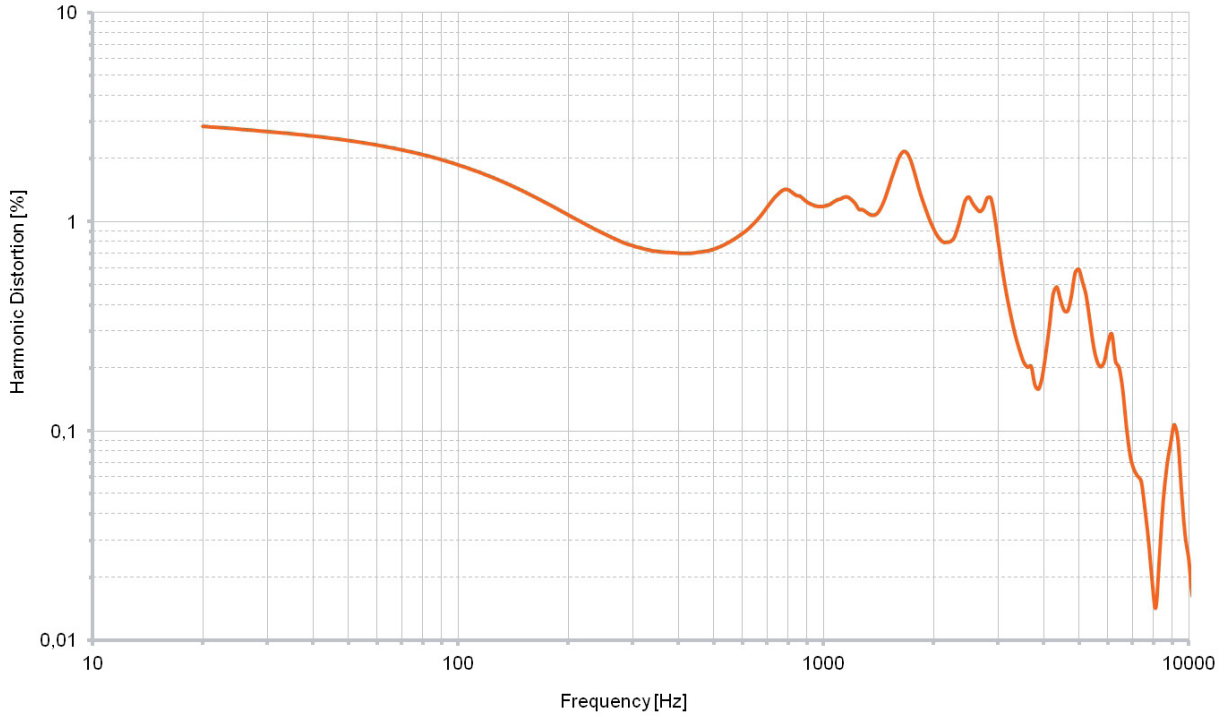
Typical response curve



THD vs Frequency, typical, nominal input



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