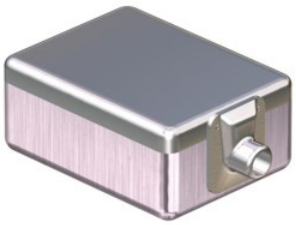
Data Sheet

Receiver 2091i

Description

Miniature magnetic receiver (balanced armature type) for use in hearing aids and communication equipment.



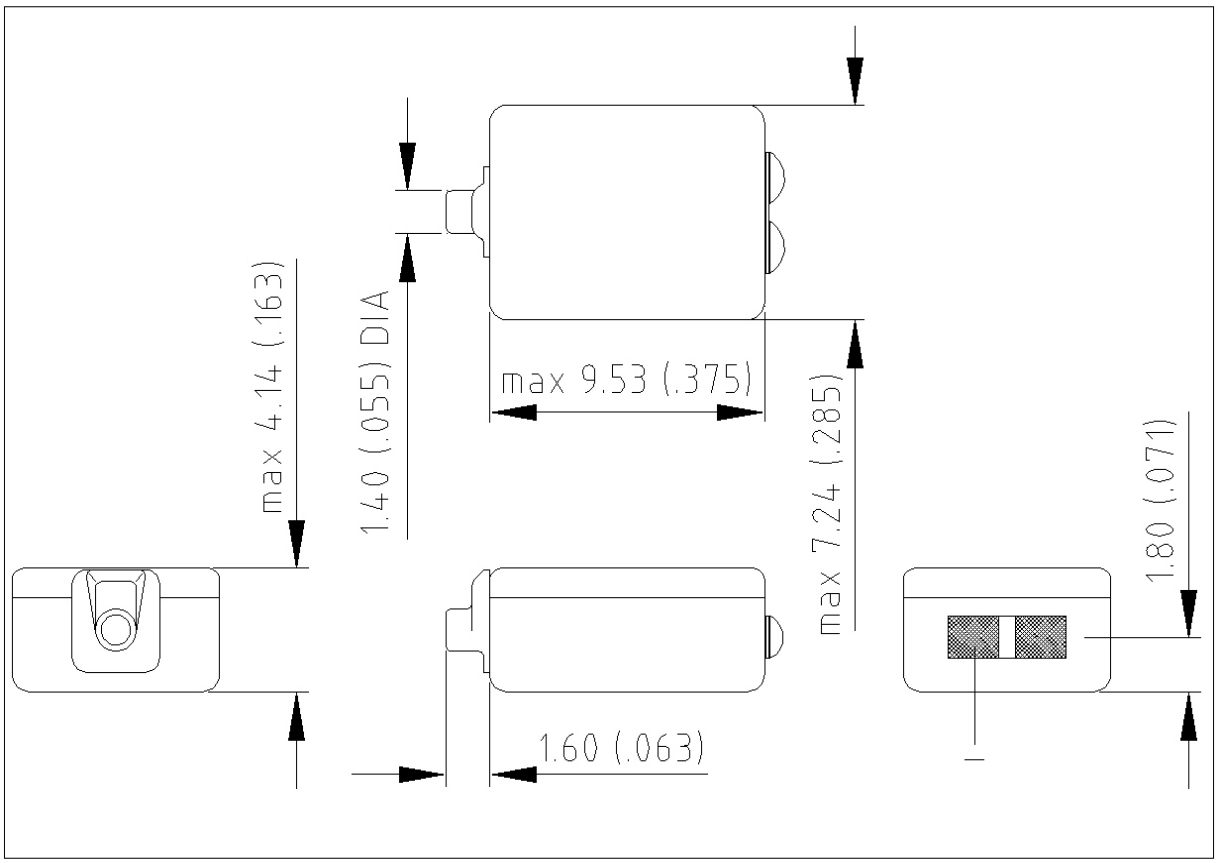
Features

- High output, maximum peak output 140 dB
- Suitable as woofer in PM applications

Mechanical data

Weight	0.94 gr.
Case material	Ni80Fe20
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: 3200-3021159
Version: 1
Version date 18-Feb-2009

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 0.10 V RMS from a low impedance source unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 50 Hz	120	123	126	dB	
	@ 300 Hz	117	120	123	dB	
	@ 500 Hz	114.5	117.5	120.5	dB	
	@ 1000 Hz	114	117	120	dB	
Peak 1	frequency	1450	1700	1950	Hz	
	output	121	124	127	dB	
Valley 1	frequency	2550	2800	3050	Hz	
	output	112	115		dB	
Peak 2	frequency	3150	3500	3850	Hz	
	output	116	119	122	dB	
Valley 2	frequency	5800	6200	6600	Hz	
	output	92	96		dB	
THD	@ 800 Hz		2	5	%	
	@ 1700 Hz		1	5	%	
Maximum output @ peak frequency		136	140		dB	

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	45.6	57	68.4	Ohm	
Impedance @ 500 Hz	19.2	24	28.8	Ohm	
DC resistance @ 20°C	9.3	11	12.7	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	5500			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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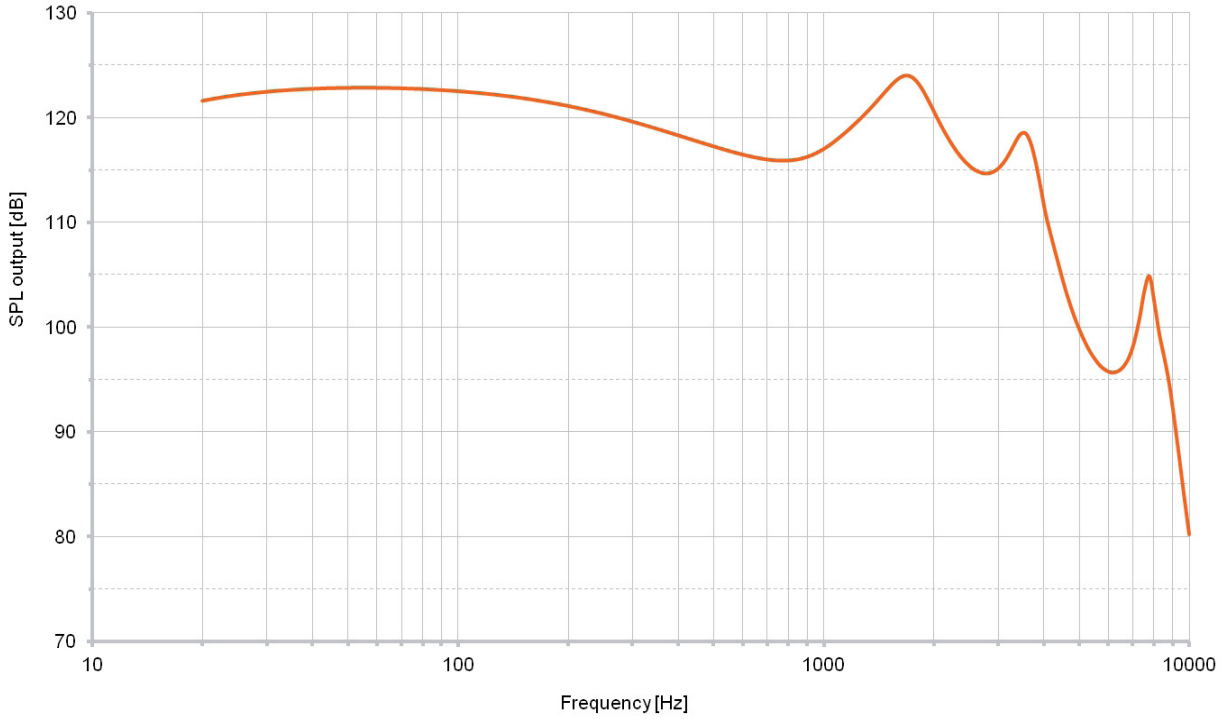
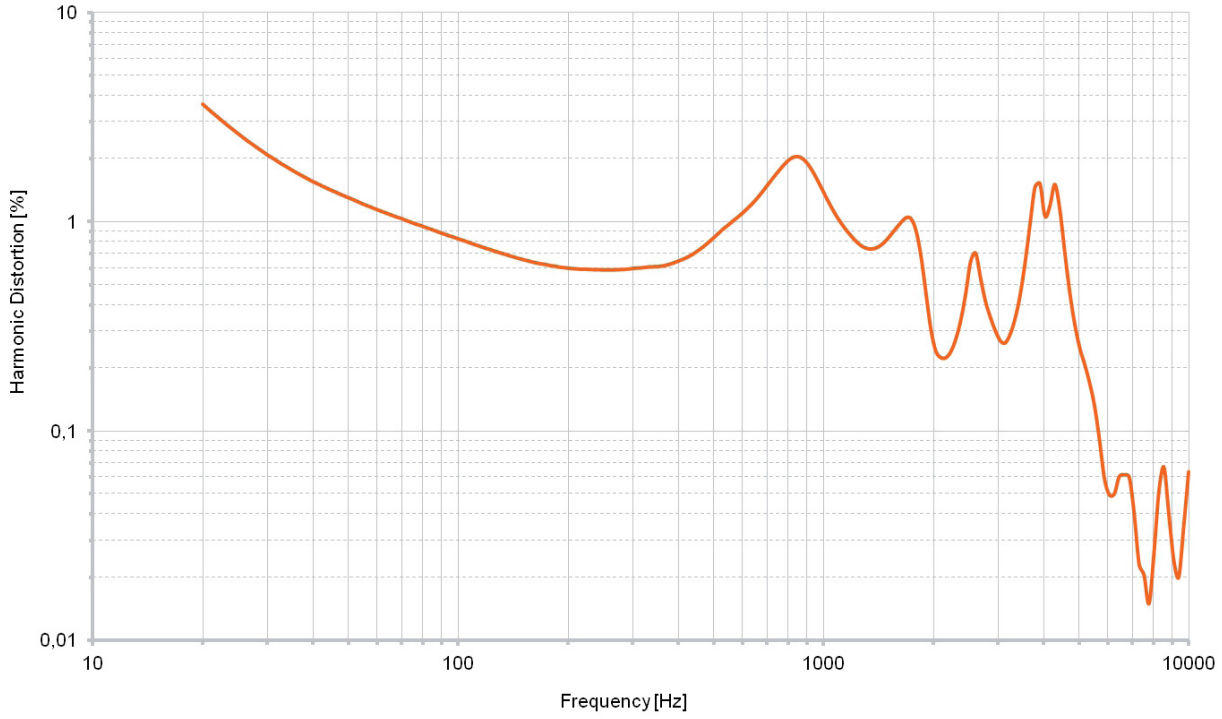
Typical response curve



THD vs Frequency, typical, nominal input



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