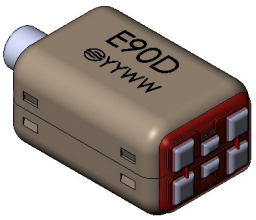
Description

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



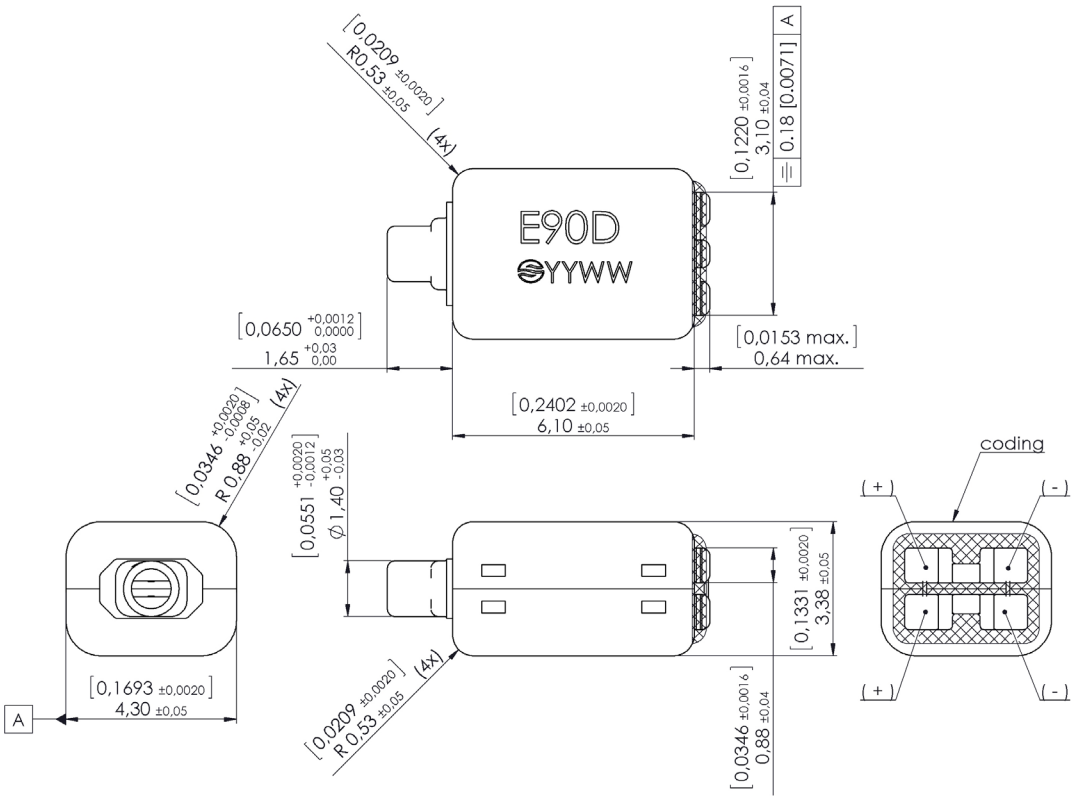
Features

- Dual receiver
- Parallel pre-wired
- Reversed motor position for decreased mag-rad and longitudinal vibration

Mechanical data

Weight	0.25 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 consists of: 8 mm x 1 mm ID + 28 mm x 1.5 mm ID + 25 mm x 2 mm ID + 18 mm x 3 mm ID + 2 cc coupler. Drive is voltage drive of 0.16 V RMS (0.35 mVA at 500 Hz) unless specified otherwise. Environmental conditions: 23°C (73.4F), 50%RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 100 Hz	101	103.5	106	dB	
	@ 200 Hz	101	103.5	106	dB	
	@ 500 Hz	103	105.5	108	dB	
Peak 1	frequency	860	1060	1260	Hz	
	output	114.5	117.5	120.5	dB	
Valley 1	frequency	1080	1680	2280	Hz	
	output	104.5	108		dB	
Peak 2	frequency	1670	2270	2870	Hz	
	output	111	114.5	118	dB	
Valley 2	frequency	2400	3000	3600	Hz	
	output	104.5	105		dB	
Peak 3	frequency	3000	3600	4200	Hz	
	output	109	112.5	116	dB	
Valley 3	frequency	3750	4350	4950	Hz	
	output	99	102.5		dB	
Peak 4	frequency	4300	4900	5500	Hz	
	output	104	107.5	111	dB	
Valley 4	frequency	5000	5600	6200	Hz	
	output	95.5	99		dB	
Peak 5	frequency	5250	5850	6450	Hz	
	output	97	100.5	104	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			132.5		dB	@ 0.92 Vrms

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	70	88	106	Ohm	
Impedance @ 500 Hz	55	69	83	Ohm	
DC resistance @ 20°C	51	60	69	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	12000			g	80% survival rate with THD @ 1/2 peak freq. < 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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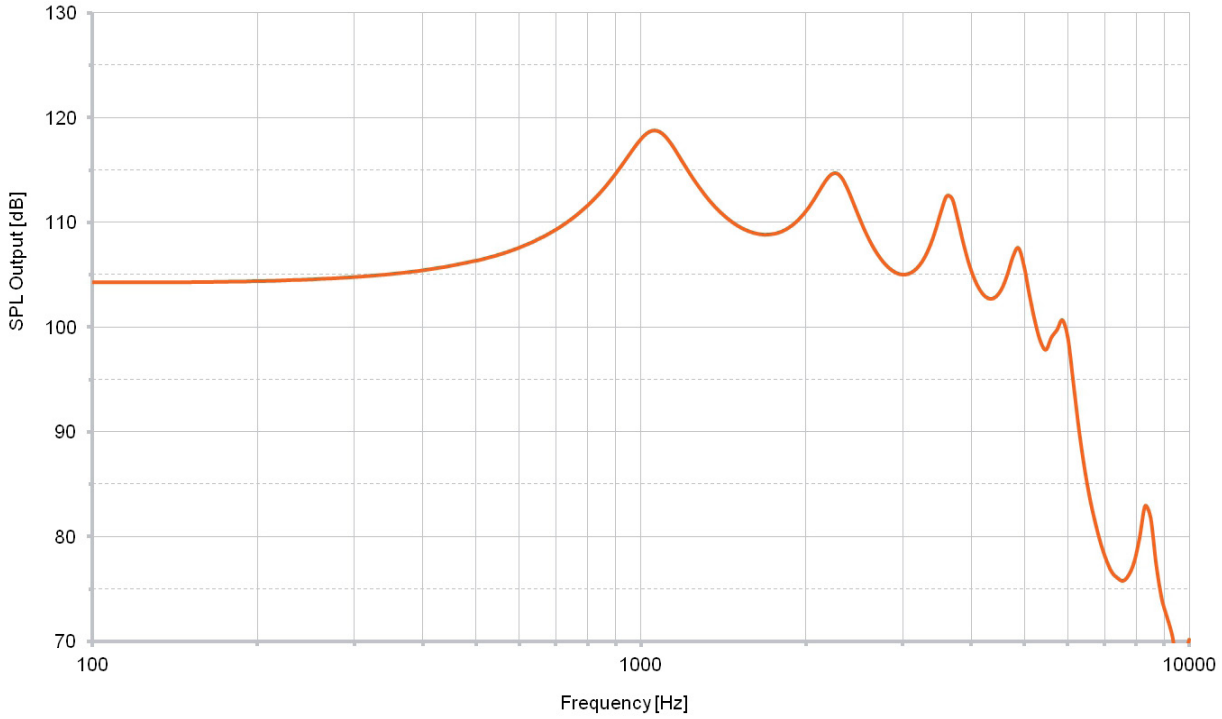
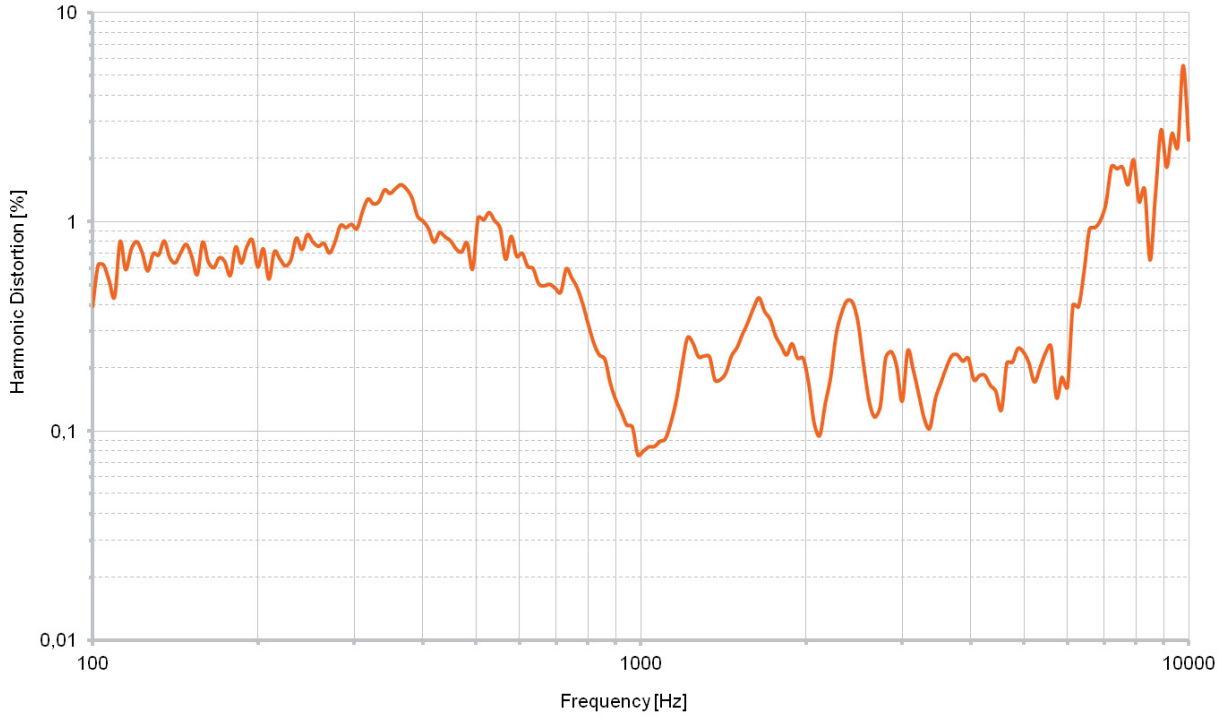
Typical response curve



THD vs Frequency, typical, nominal input



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