

Description

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

Features

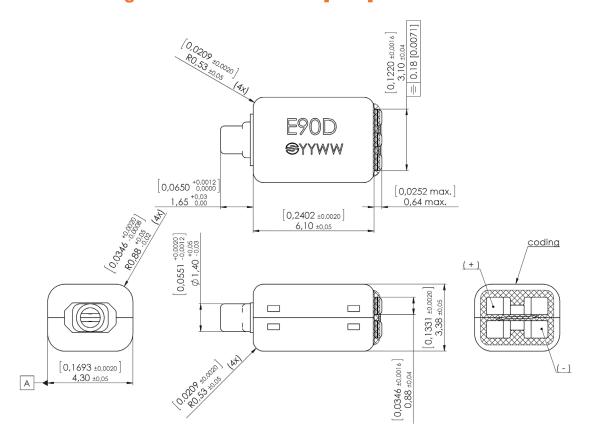
- Dual receiver
- Series pre-wired
- Reversed motor position for decreased mag-rad and longitudinal vibration



Mechanical data

Weight 0.25 gr. Ni80Fe15Mo5 Case material Solder pad material Sn96.5Ag3.0Cu0.5 **Dimensions** Refer to outline drawing

Product drawing - Dimensions in mm [inch]



Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible. Receivers series of this type can produce very high sound pressure levels. When such receivers are applied in hearing instruments or other communications equipment special attention should be paid to this capacity in order to prevent possible hearing damage.

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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 0.188 V RMS (0.35 mVA at 500 Hz) unless specified otherwise. Environmental conditions: 23°C (73.4F), 50%RH.

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Acoustic parameters		Min	Тур	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			130.5		dB	@ 0.92 Vrms	

Electric parameters	Min	Тур	Max	Unit	Comments
Impedance @ 1000 Hz	96	120	144	Ohm	
Impedance @ 500 Hz	80	100	120	Ohm	
DC resistance @ 20°C	78	92	106	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Тур	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.

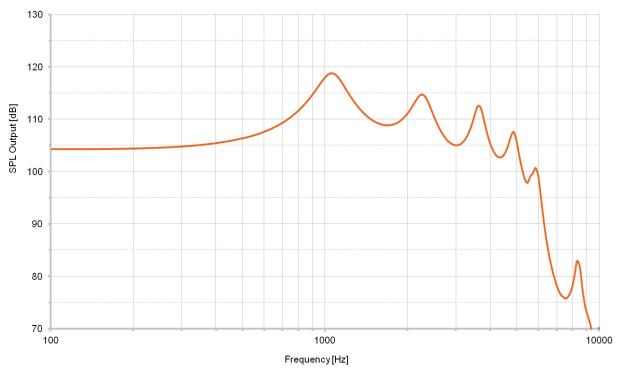
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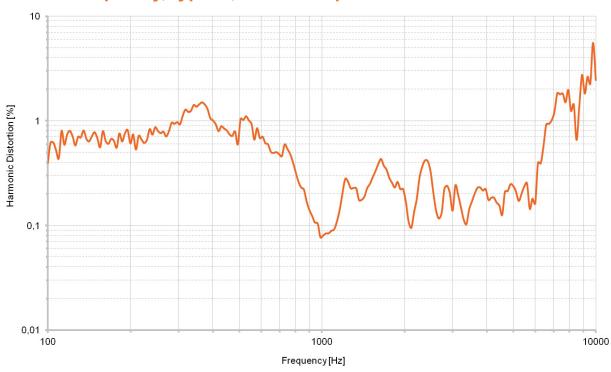




Typical response curve



THD vs Frequency, typical, nominal input



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