Data Sheet

Receiver 23x47/8



Description

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

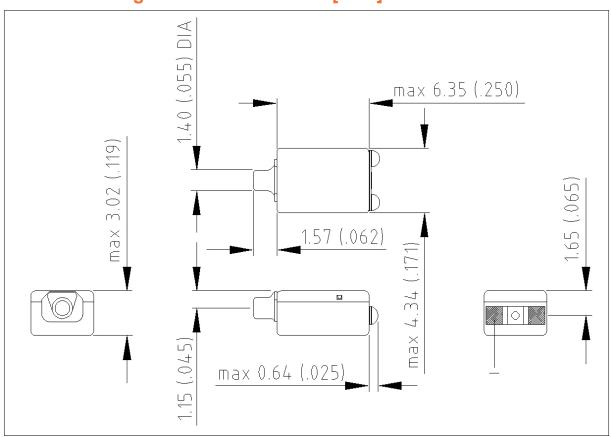
Features

- 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]



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 consist of: $4.5 \times 1.4 \text{ mm ID} + 11 \times 1.9 \text{ mm ID} + \text{into IEC 711 coupler.}$ 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	Тур	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	Тур	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	Тур	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.

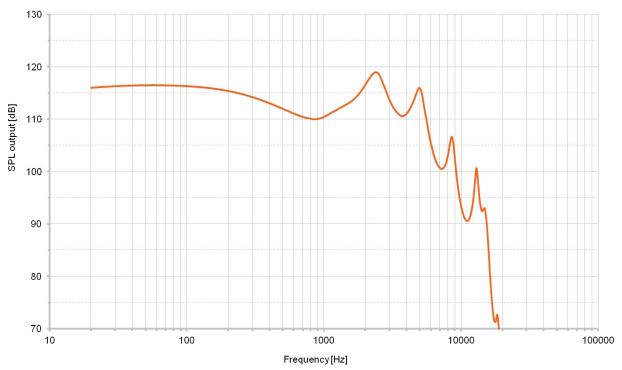
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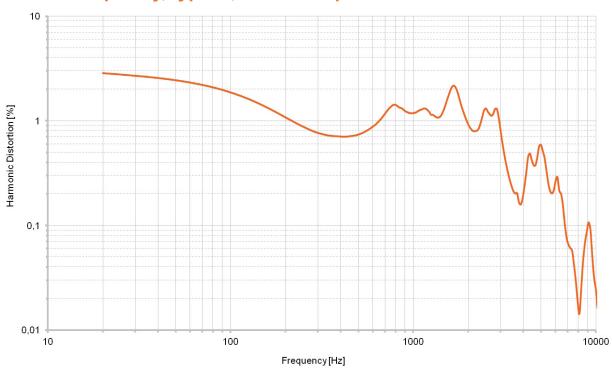




Typical response curve



THD vs Frequency, typical, nominal input



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