

Description

Subminiature magnetic receiver (Balanced Armature Type) for use in Hearing Instruments and In Ear Monitor applications.

Features

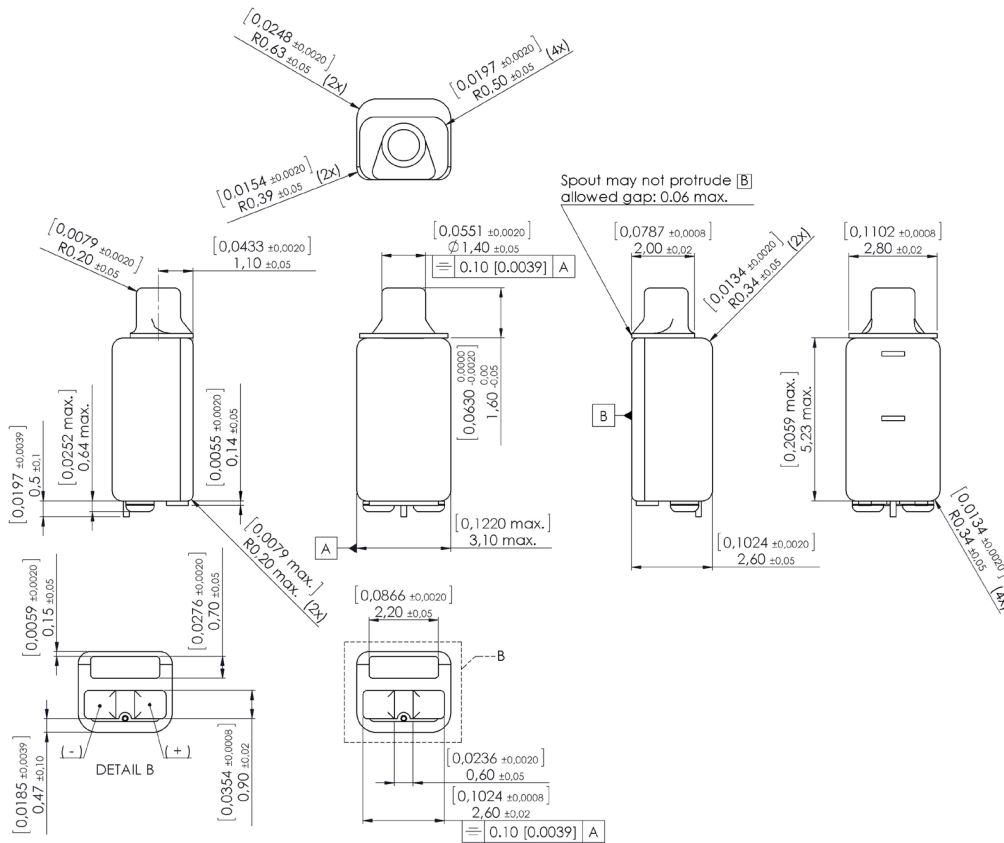
- Extended bass by tuned back vent.
- Ideal for use as full range single driver in small In Ear Monitor designs.



Mechanical data

Weight	0.17 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.

Specifications

The acoustic termination consists 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 unless specified otherwise.

Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 30 Hz	103	105.5	108	dB	
	@ 100 Hz	103	105.5	108	dB	
	@ 500 Hz	99	101.5	104	dB	
	@ 1000 Hz	98	100.5	103	dB	
Peak 1	frequency	2800	3000	3200	Hz	
	output	110	113	116	dB	
Valley 1	frequency	4150	4400	4650	Hz	
	output	103.5	106.5		dB	
Peak 2	frequency	5350	5600	5850	Hz	
	output	111.5	114.5	117.5	dB	
Valley 2	frequency	7450	8000	8550	Hz	
	output	90	93		dB	
Peak 3	frequency	9000	9700	10400	Hz	
	output	94.5	99.5	104.5	dB	
THD	@ 1/3 peak		1.3	5	%	
	@ 1/2 peak		0.5	5	%	
Maximum output @ peak frequency			134		dB	@ 50 mVA input

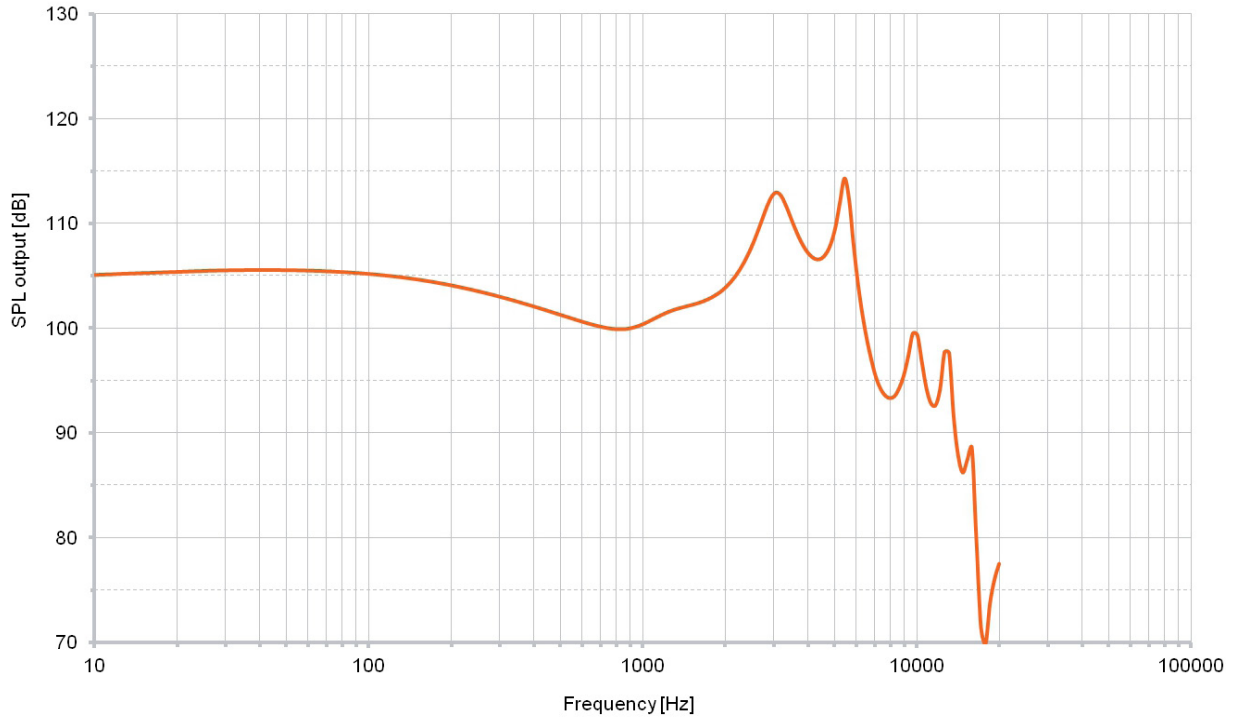
Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	56	70	84	Ohm	
Impedance @ 500 Hz	40	50	60	Ohm	
DC resistance @ 20°C	34	40	46	Ohm	
DC bias current range	zero bias				

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	

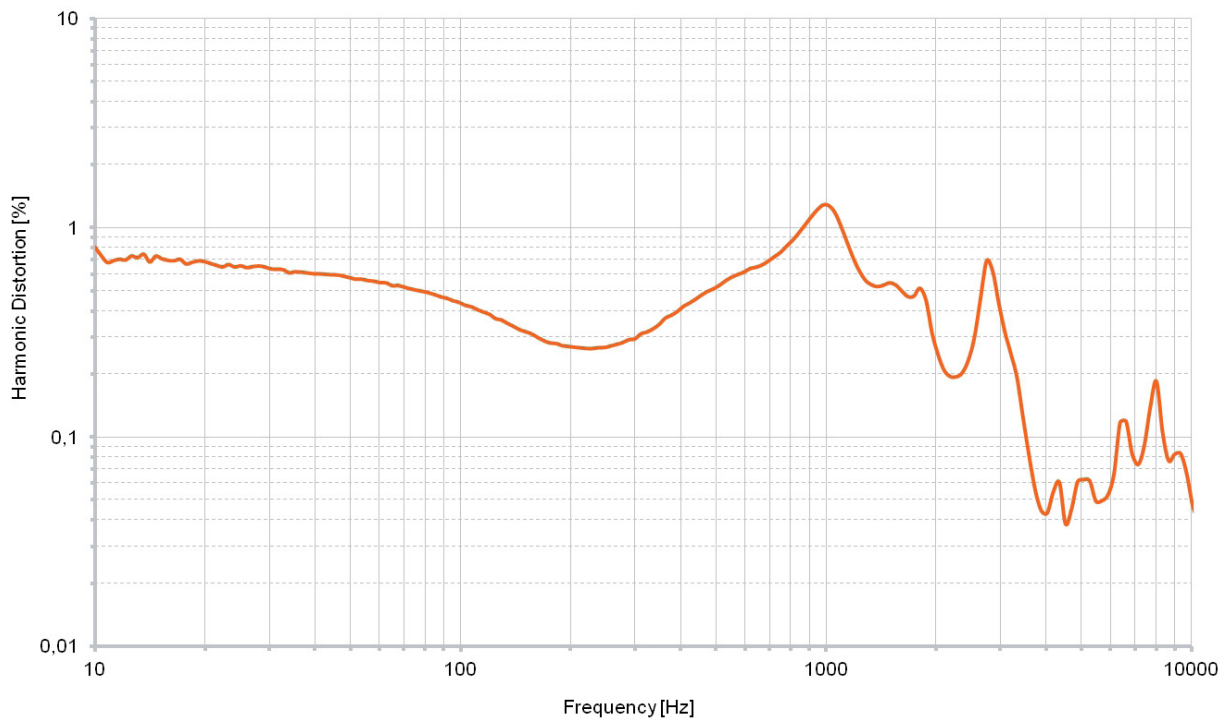
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

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Typical response curve



THD vs Frequency, typical, nominal input



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