Data Sheet

Receiver 23x16

Description

Subminiature magnetic receiver (Balanced Armature Type) for use in Behind The Ear and In The Ear applications with modified response by means of a damping screen and internal modification.

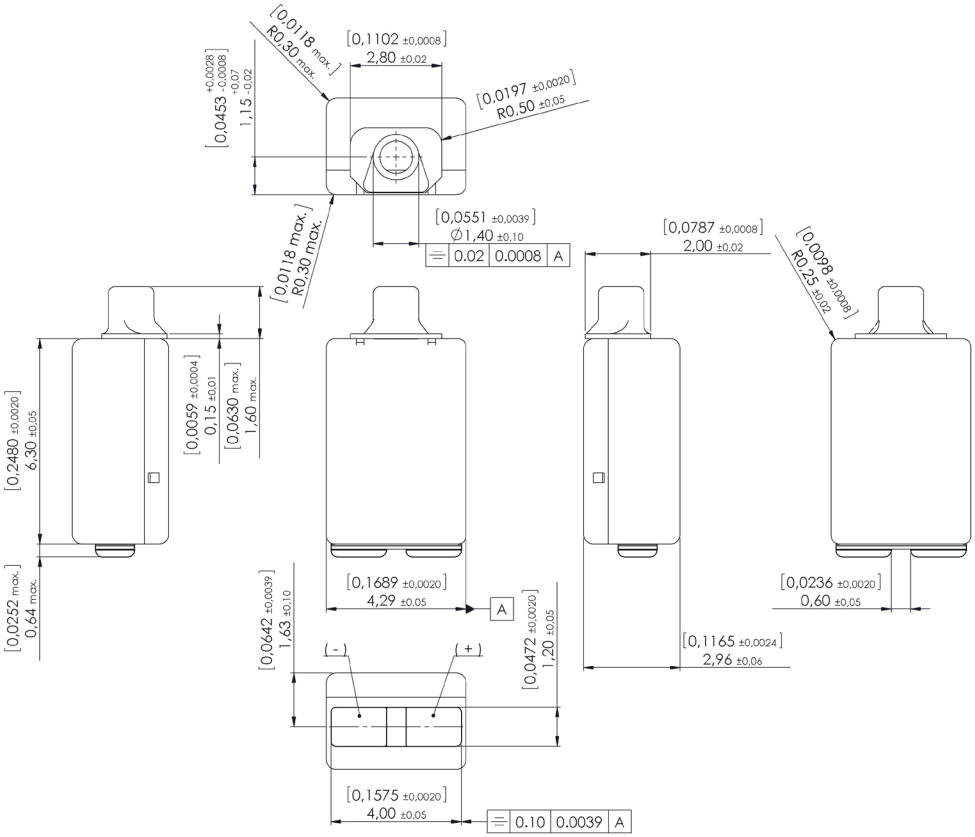
Features

- Great ITE/BTE applications
- High output, maximum peak output 129 dB
- 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]



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Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.
Constant current drive of 1.53 mA RMS (0.35 mVA @ 1000 Hz).
Enviromental conditions: 23°C (73.4F), 50 % RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	95	98	101	dB	
	@ 500 Hz	98.5	101.5	104.5	dB	
	@ 1000 Hz	101	104	107	dB	
Peak 1	frequency	1900	2100	2300	Hz	
	output	111	113	114.5	dB	
Valley 1	frequency	3200	3550	3900	Hz	
	output	101	105		dB	
Peak 2	frequency	4000	4500	5000	Hz	
	output	103	105	108.5	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency				126	dB	@ 50 mVA input power

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	120	150	180	Ohm	
Impedance @ 500 Hz	68	85	102	Ohm	
DC resistance @ 20°C	38	45	52	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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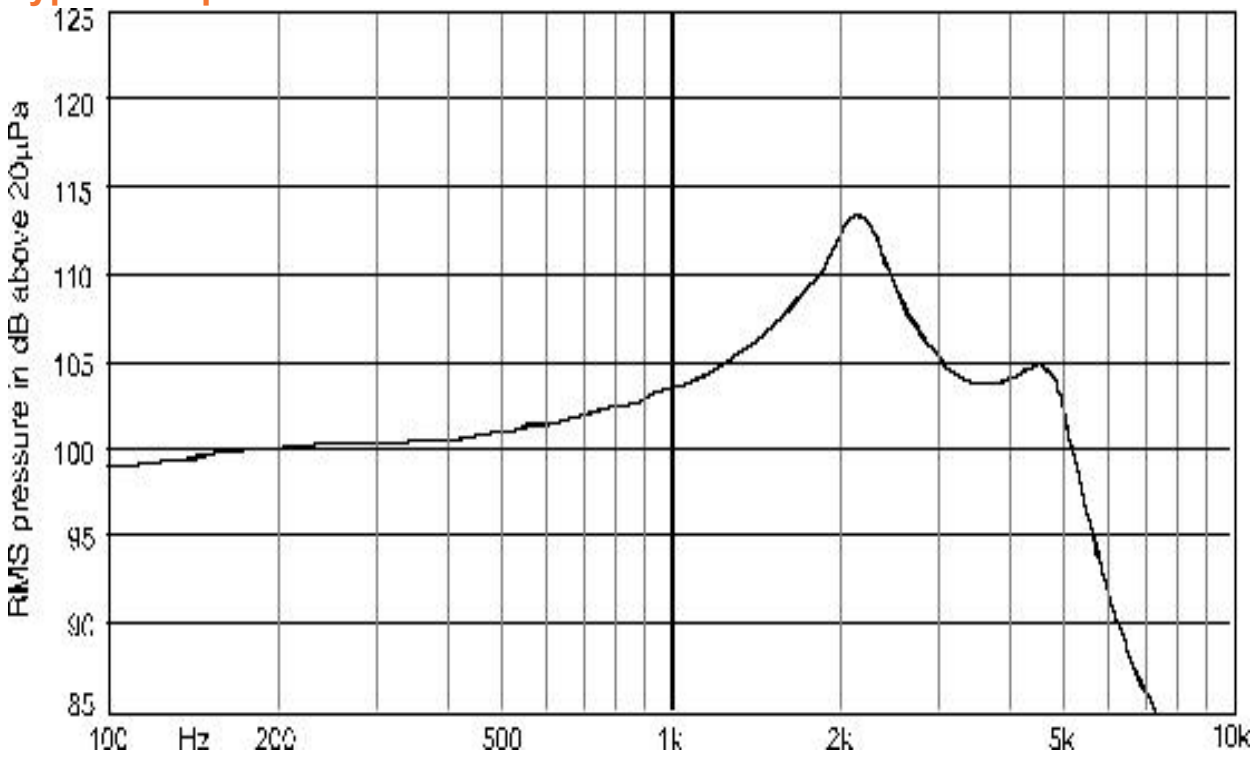
Item-Configuration number: 3230-1100085
Version: 2
Version date 30-Nov-2005

Typical response curve



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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