

# Data Sheet



receiver 23x23/1

3230 - 1100094  
Version:3 16-MAY-2006

## Description

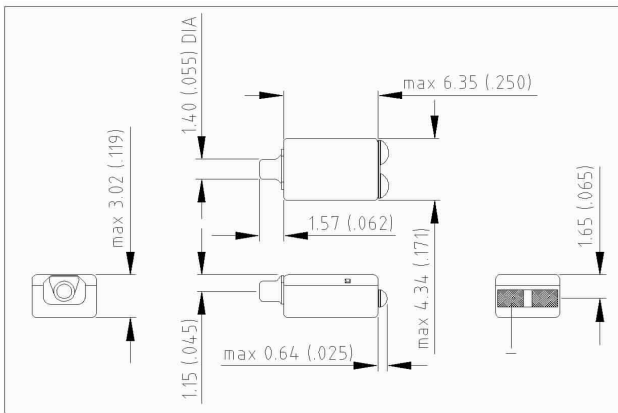
Subminiature magnetic receiver (Balanced Armature Type) with improved shock resistance for use in Behind The Ear and In The Ear applications with modified response by means of a damping screen and internal modification.



## Features

- Great ITE/BTE applications
- High output, maximum peak output 129 dB
- Improved shock performance

## Dimensions in mm (inch)

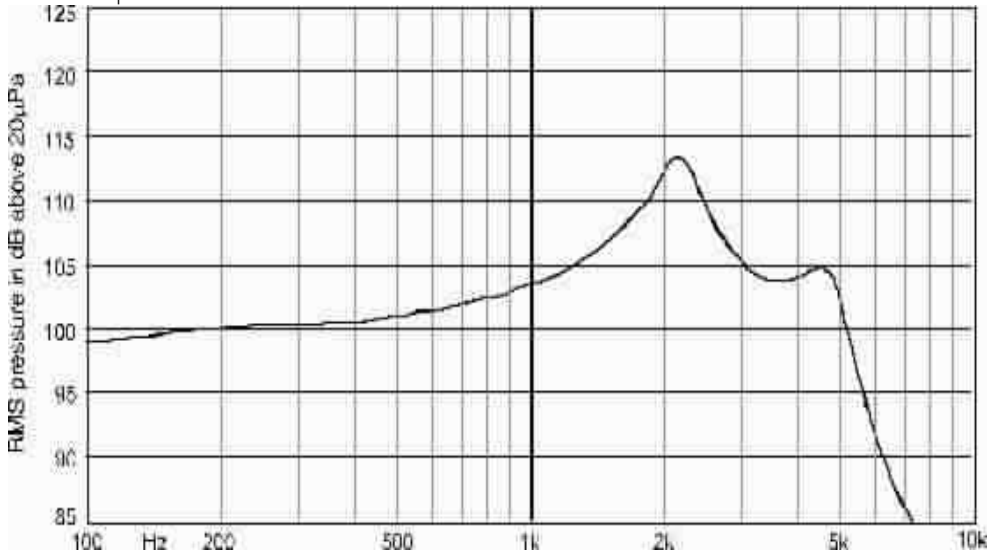


## Mechanical Data

Weight 0.34 gr.  
Case material Ni80Fe15Mo5  
Solder pad content Sn96.5Ag3.0Cu0.5  
Dimensions Refer to outline drawing

## Typical response curve

Refer to specifications section for measurement conditions.



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

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.  
Constant current drive of 0.70 mA RMS (0.35 mVA @ 1000 Hz).  
Environmental 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	@ 50mVA input power

Electric parameters		Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz		608	760	912	Ohm	
Impedance @ 500 Hz		333	416	499	Ohm	
DC resistance @ 20 °C		167	196	225	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 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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