Data Sheet

Receiver 1992

Description

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

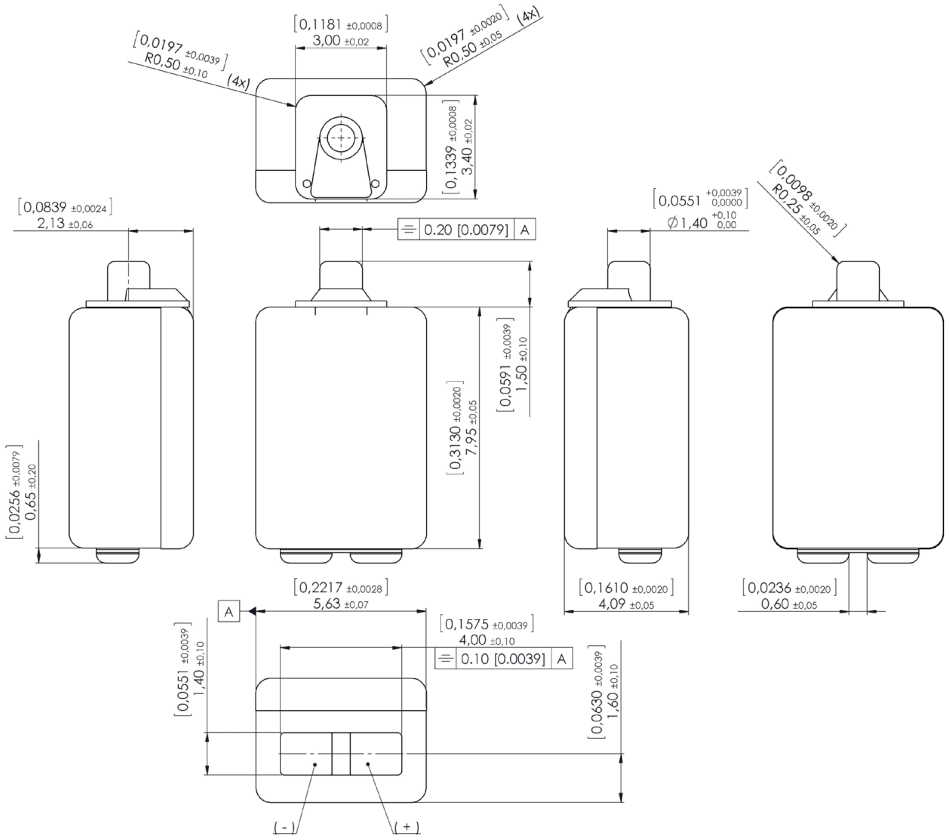
Features

- Great BTE/ITE applications
- High output, maximum peak output 138 dB
- Low distortion

Mechanical data

Weight	0.69 gr.
Case material	Ni80Fe20
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.

DK: +45 4630 6666
USA: +1 952 543 8300
PRC: +86 512 6832 3401
NL: +31 20 6068 100

RoHS 2011/65/EU

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. The electrical input is a 1.03 mA RMS constant current signal from a high impedance source superimposed on a DC bias current of 1.5 mA. Distortion is measured under MCM conditions over the full bias current range. Enviromental conditions: 23 °C (73.4F), 50 % RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	105.5	108	110.5	dB	
	@ 700 Hz	114	116	118	dB	
Peak 1	frequency	880	1030	1180	Hz	
	output	124.3	126.3	128.3	dB	
Valley 1	frequency	1200	1400	1600	Hz	
	output	116	118		dB	
Peak 2	frequency	1780	1930	2080	Hz	
	output	123.6	125.6	127.6	dB	
Valley 2	frequency	2100	2400	2700	Hz	
	output	116	118		dB	
Peak 3	frequency	2650	2800	2950	Hz	
	output	119.6	121.6	123.6	dB	
Valley 3	frequency	3300	3600	3900	Hz	
	output	105	107		dB	
Peak 4	frequency	3990	4140	4290	Hz	
	output	111	113	115	dB	
Valley 4	frequency	4700	5000	5300	Hz	
	output	94	98		dB	
Peak 5	frequency	5220	5520	5820	Hz	
	output	100.9	104.9	108.9	dB	
THD	@ 1/3 peak			9	%	
	@ 1/2 peak			9	%	
Maximum output @ peak frequency		135	138	141	dB	

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	760	950	1140	Ohm	
DC resistance @ 20°C	212	250	288	Ohm	
DC bias current range	0.6-1.5 mA				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	5500			g	90% survival rate with THD @ 1/2 peak frequency < 10%
Storage temperature range	-40		63	°C	

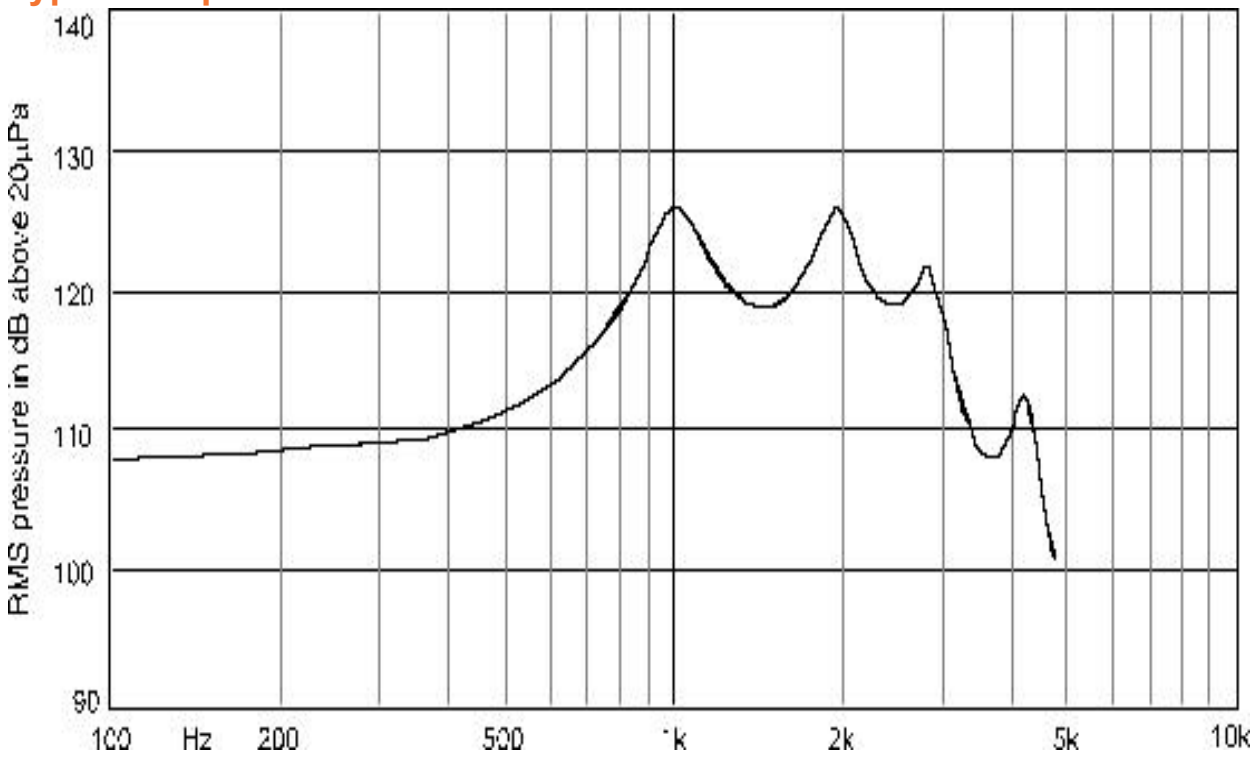
A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.

DK: +45 4630 6666
USA: +1 952 543 8300
PRC: +86 512 6832 3401
NL: +31 20 6068 100

RoHS 2011/65/EU

Item-Configuration number: 3190-1100756
Version: 3
Version date 14-Feb-2008

Typical response curve



DK: +45 4630 6666
USA: +1 952 543 8300
PRC: +86 512 6832 3401
NL: +31 20 6068 100

RoHS 2011/65/EU