

Data Sheet



receiver 1998

3190 - 1100763
Version:3 14-FEB-2008

Description

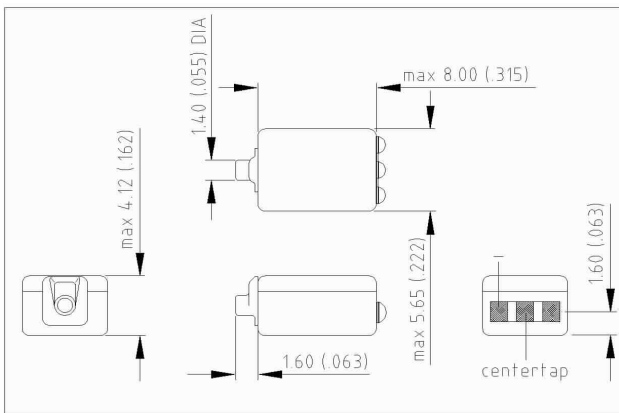
Miniature magnetic receiver (balanced armature type) for use in hearing aids with push-pull output stage.



Features

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

Dimensions in mm (inch)

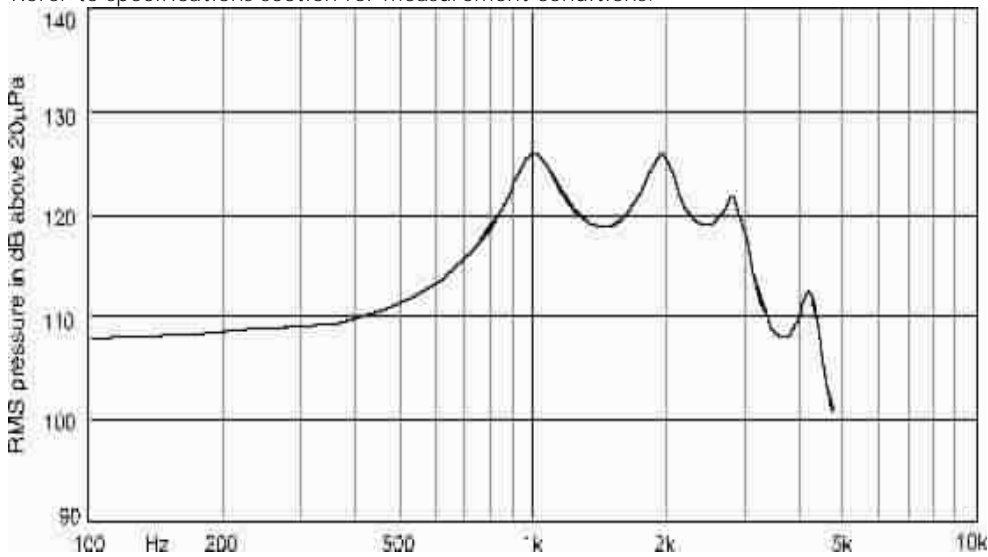


Mechanical Data

Weight	0.69 gr.
Case material	Ni80Fe20
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

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 0.85 mA RMS constant current signal from a high impedance source, applied to the total winding. Environmental 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	1104	1380	1656	Ohm	
Impedance @ 500 Hz	578	723	867	Ohm	
DC resistance @ 20 °C	212	250	287	Ohm	
DC bias current range					

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	5500			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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