

Patents pending

V. 0.1 - Jul 2004

Description

Miniature magnetic receiver (Balanced Armature Type) for use in hearing aids.

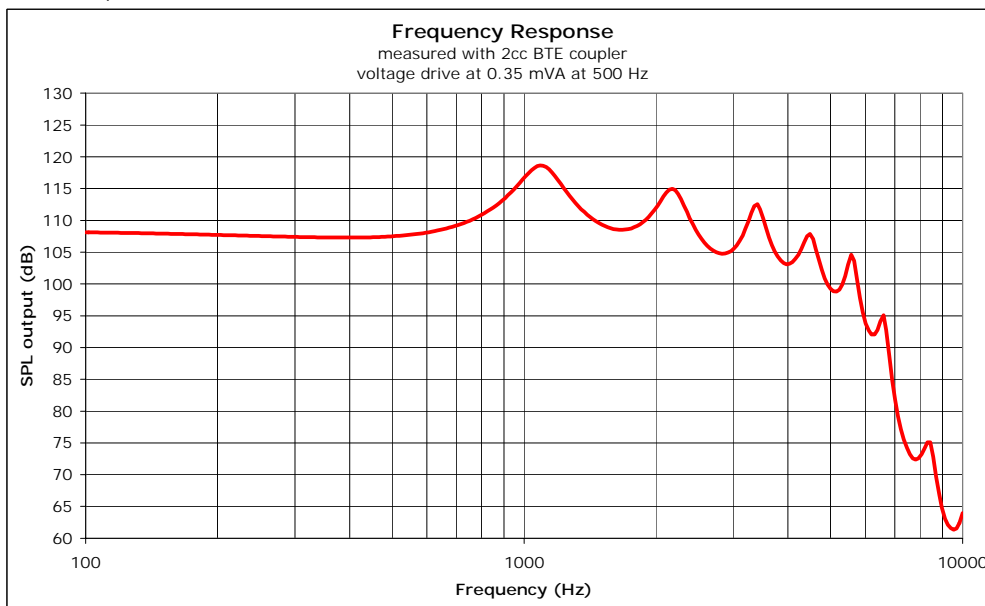


Features

- Ideal for ITE and BTE applications
- Specifically designed for digital applications
- 1/2 the size of a 3300 and 1900 receivers
- Broadband output
- Zero bias configuration

Typical response curve

Refer to specifications section for measurement conditions.

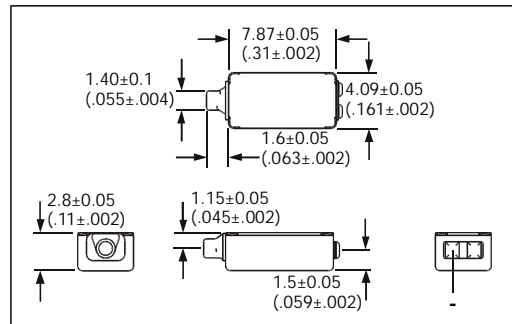


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Mechanical Data

Weight	0.3 g
Case material	Ni80Mo5Fe15
Solder pad content	Sn62Pb36Ag2
Dimensions	Refer to outline drawing

Dimensions in mm. (inches)



Specifications

Measurement 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.
- Drive is voltage drive of 0.15 V RMS (0.35 mVA at 500 Hz) unless specified otherwise.

Acoustic Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	104.5	107.5	110.5	dB	
	@ 300 Hz	104.5	107.5	110.5	dB	
	@ 500 Hz	104.5	107.5	110.5	dB	
Peak 1	frequency	925	1075	1225	Hz	
	output	116	118.5	121	dB	
Valley 1	frequency	1425	1675	1925	Hz	
	output	105.5	108.5		dB	
Peak 2	frequency	1975	2175	2375	Hz	
	output	112.5	115	117.5	dB	
Valley 2	frequency	2575	2825	3075	Hz	
	output	101.5	104.5		dB	
Peak 3	frequency	3100	3400	3700	Hz	
	output	110	112.5	115	dB	
Valley 3	frequency	3725	3975	4225	Hz	
	output	100.5	103		dB	
Peak 4	frequency	4250	4500	4750	Hz	
	output	104.5	107.5	110.5	dB	
Valley 4	frequency	4900	5150	5400	Hz	
	output	95.5	98.5		dB	
Peak 5	frequency	5175	5575	5975	Hz	
	output	100	104.5	109	dB	
THD	@ 1/3 x pkf 1			5	%	
	@ 1/2 x pkf 1			5	%	
Output @ peak frequency 1			136		dB	100 mVA input
Electric Parameters		Min	Typ	Max	Unit	Comments
Impedance (1 kHz)		124	155	186	Ohm	
Impedance (500 Hz)		54	68	82	Ohm	
DC resistance @ 20 °C		37	43	49	Ohm	
Additional Parameters		Min	Typ	Max	Unit	Comments
Shock resistance		15000			g	85% survival rate with THD @ 350 Hz < 10%
Storage temperature range		-40		63	°C	

A positive voltage applied to the terminals will result in an increase in pressure in the sound outlet.

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Receiver
31A015

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THD vs Frequency

