

Data Sheet



receiver 44AA030

3440 - 3021181
Version:2 07-AUG-2009

Description

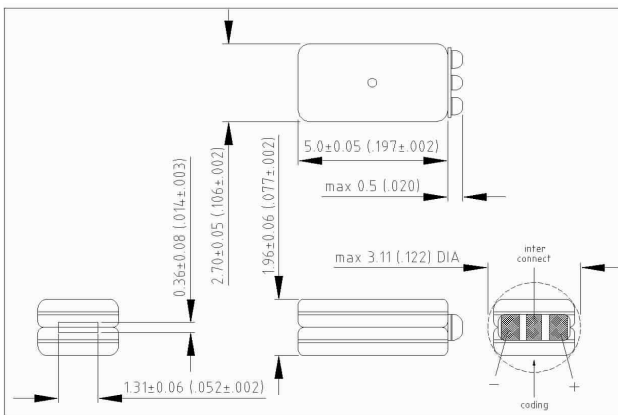
Subminiature magnetic receiver (Balanced Armature Type) for use in hearing aids.

Features

- Dual receiver, parallel or series connection
- Reduced mechanical vibration
- Improved shock performance
- Increased resistance provides flat LF response driven from voltage source



Dimensions in mm (inch)

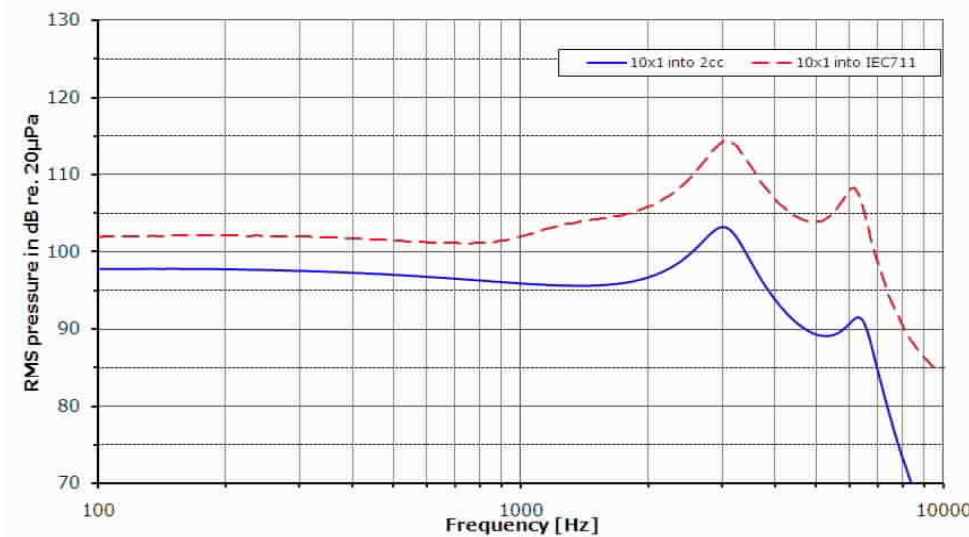


Mechanical Data

Weight 0.135 gr.
Case material Ni48Fe52
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 mm x 1.0 mm ID into a 2 cc coupler versus 10 mm x 1.0 mm ID into a IEC 711 coupler.
Constant voltage drive of 0.30 V RMS (0.35 mVA @ 500 Hz).
Environmental conditions: 23 °C (73.4F), 50 % RH.

Acoustic parameters		10x1 mm into 2cc			10x1 mm into 711			Unit	Comments
		Min	Typ	Max	Min	Typ	Max		
Sensitivity	@ 200 Hz	95.5	98	100.5	99.5	102	104.5	dB	
	@ 500 Hz	94.5	97	99.5	99	101.5	104	dB	
	@ 1 kHz	93.5	96	98.5	99.5	102	104.5	dB	
Peak 1	frequency	2950	3150	3350	2950	3150	3350	Hz	
	output	101	104	107	111.5	114.5	117.5	dB	
Valley 1	frequency	4800	5400	6000	4500	5100	5700	Hz	
	output	86.5	90		99.5	103		dB	
Peak 2	frequency	5900	6500	7100	5600	6200	6800	Hz	
	output	88	91.5	95	104.5	108	111.5	dB	
THD	@ 1/3 peak			5			5	%	
	@ 1/2 peak			5			5	%	
Maximum output @ peak frequency			122			132		dB	50 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	256	320	384	Ohm	
Impedance @ 500 Hz	200	250	300	Ohm	
DC resistance @ 20 °C	174	218	262	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Typ	Max	Unit	Comments
Shock resistance	12000			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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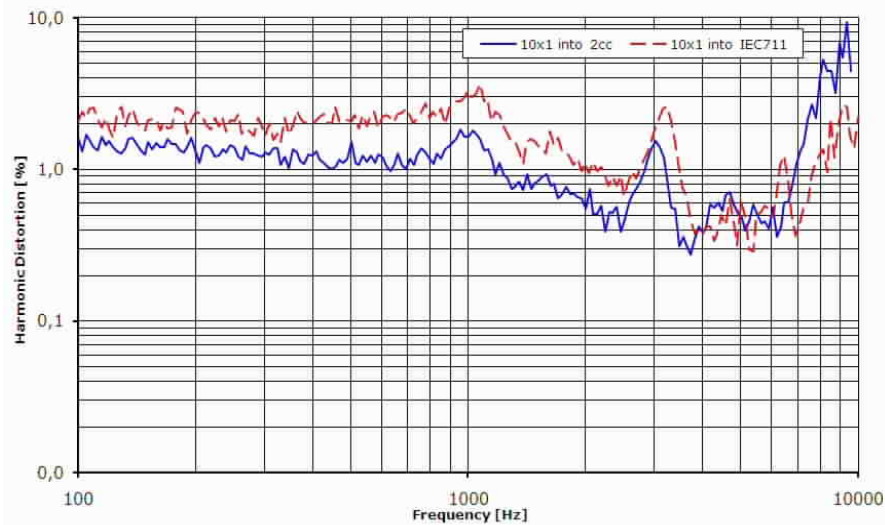
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THD vs Frequency, typical, nominal input



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