# **Data Sheet**

Receiver E40DA020G



#### **Description**

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

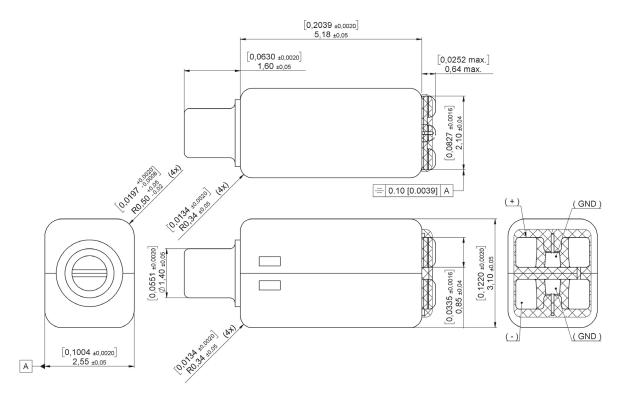
#### **Features**

- Dual receiver, series connected
- Short size
- Reduced mechanical vibration
- Reduced magnetic radiation

#### **Mechanical data**

Weight 0.17 gr.
Case material Ni80Fe15Mo5
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.

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### **Specifications**

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.

Constant voltage drive of 0.240 V RMS (0.35 mVA @ 500 Hz) unless specified otherwise.

Environmental conditions: 23°C (73.4F), 50% RH.

Acoustic parameters		Min	Тур	Max	Unit	Comments
Sensitivity	@ 200 Hz	95.5	98.5	101.5	dB	
	@ 500 Hz	95.5	98.5	101.5	dB	
	@ 1000 Hz	95.5	98.5	101.5	dB	
Peak 1	frequency	2500	2800	3100	Hz	
	output	101.5	104.5	107.5	dB	
Valley 1	frequency	4050	4550	5050	Hz	
	output	93	96		dB	
Peak 2	frequency	4850	5350	5850	Hz	
	output	94	98	102	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			116		dB	@ 0.92 Vrms

Electric parameters	Min	Тур	Max	Unit	Comments
Impedance @ 1000 Hz	190	210	232	Ohm	
Impedance @ 500 Hz	153	170	187	Ohm	
DC resistance @ 20°C	136	150	166	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Тур	Max	Unit	Comments
Shock resistance	12000			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.

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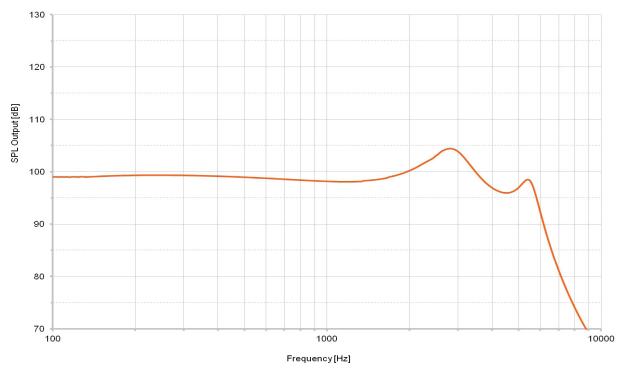
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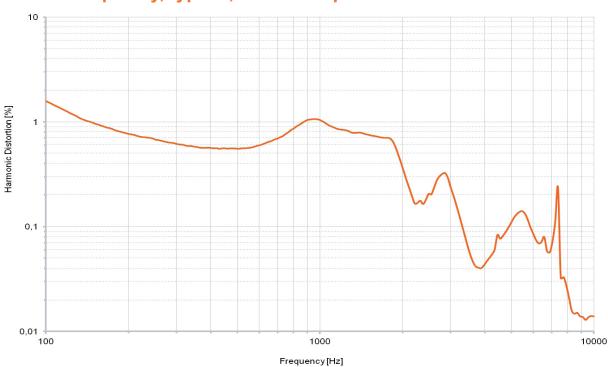
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### **Typical response curve**



# THD vs Frequency, typical, nominal input



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