

Data Sheet



receiver 28UAS01

3281 - 3023665
Version:1 21-JUL-2010

Description

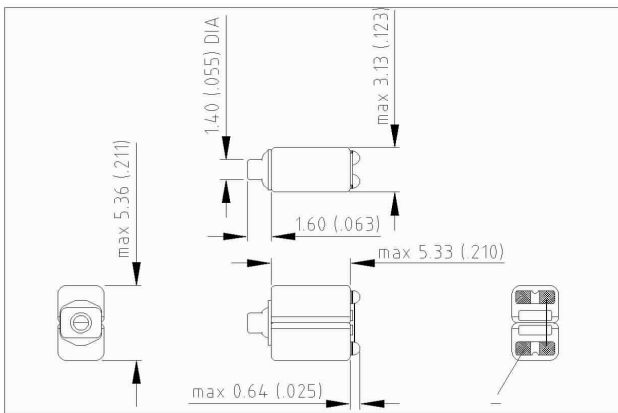
Subminiature magnetic receiver (Balanced Armature Type) for use in In The Canal and Completely In The Canal applications with standard response serial prepped.

Features

- Great ITE, ITC and CIC applications
- High output, maximum peak output 132 dB
- Reduced transversal vibration 15 dB typ RE single receiver



Dimensions in mm (inch)

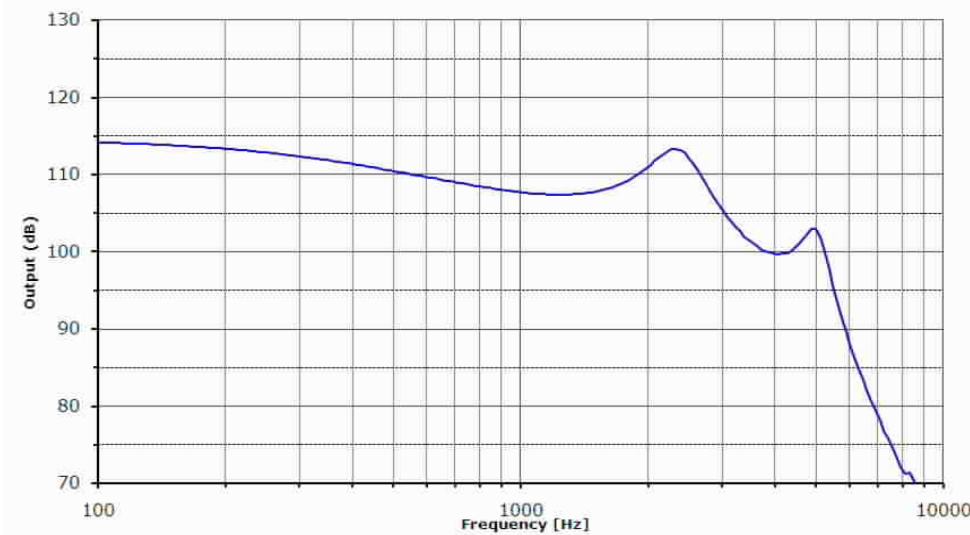


Mechanical Data

Weight	0.34 gr.
Case material	Ni80Fe15Mo5
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: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.
Constant voltage drive of 0.32 V RMS (0.70 mVA @ 500 Hz).
Environmental conditions: 23 °C (73.4F), 50 % RH

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	109.5	112.5	115.5	dB	
	@ 500 Hz	107	110	113	dB	
	@ 1000 Hz	104.5	107.5	110.5	dB	
Peak 1	frequency	2100	2300	2500	Hz	
	output	110	113	116	dB	
Valley 1	frequency	3850	4050	4250	Hz	
	output	97	100		dB	
Peak 2	frequency	4400	4900	5400	Hz	
	output	100	103	106	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency				132	dB	100 mVA input

Electric parameters		Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz series		192	240	288	Ohm	
Impedance @ 500 Hz series		112	140	168	Ohm	
DC resistance @ 20 °C series		85	100	115	Ohm	
DC bias current range		zero bias				

Additional parameters		Min	Typ	Max	Unit	Comments
Shock resistance		14000			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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