Data Sheet

Receiver 38D1XJ007Mi/8a



Description

Miniature magnetic receiver (balanced armature type) for use in earphone applications.

Features

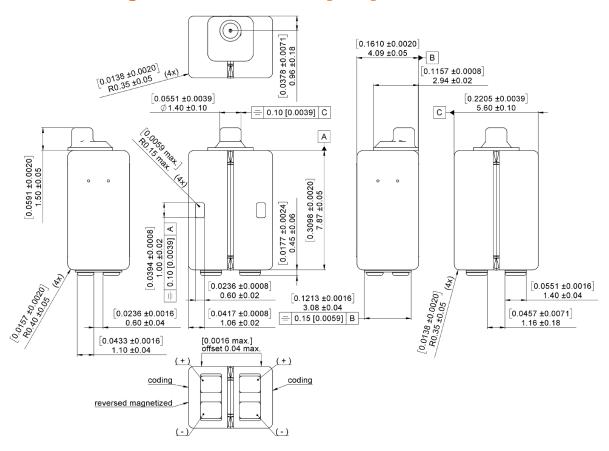
- High output and high sensitivity woofer
- Acupass™ damper integrated in spout
- Ideal for use as (sub) woofer in multi-way In Ear Monitor systems



Mechanical data

Weight 0.60 gr. Ni80Fe15Mo5 Case material 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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SpecificationsThe acoustic termination consist of: 4.5 x 1.4 mm ID + 11 x 1.9 mm ID into IEC 711 coupler. Drive is voltage drive of 0.100 V RMS unless specified otherwise. Measured with open vent holes. Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Тур	Max	Unit	Comments
Sensitivity	@ 30 Hz	122	125	128	dB	
	@ 100 Hz	120	122.5	125	dB	
	@ 500 Hz	107.5	110	112.5	dB	
	@ 1000 Hz	102	104.5	107	dB	
	@ 2000 Hz	97.5	100.5	103.5	dB	
THD	@ 150 Hz		2	5	%	
	@ 500 Hz		3	5	%	
Maximum output @ 50 Hz THD <5%			132		dB	Corresponding input ~200 mV

Electric parameters	Min	Тур	Max	Unit	Comments
Impedance @ 1000 Hz	18	22.5	27	Ohm	
Impedance @ 500 Hz	14	17.5	21	Ohm	
DC resistance @ 20°C	10.6	12.5	14.4	Ohm	
DC bias current range	zero bias				

Additional parameters	Min	Тур	Max	Unit	Comments
Shock resistance	8000			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.

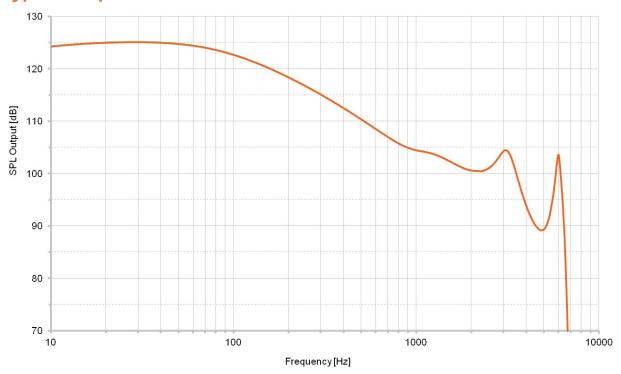
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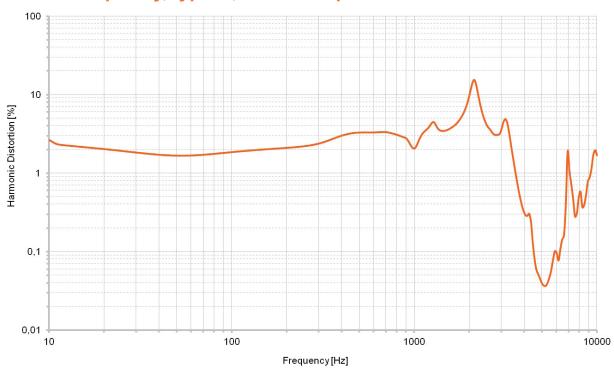




Typical response curve



THD vs Frequency, typical, nominal input



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Version date