Data Sheet

Receiver 33UAL007

Description

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

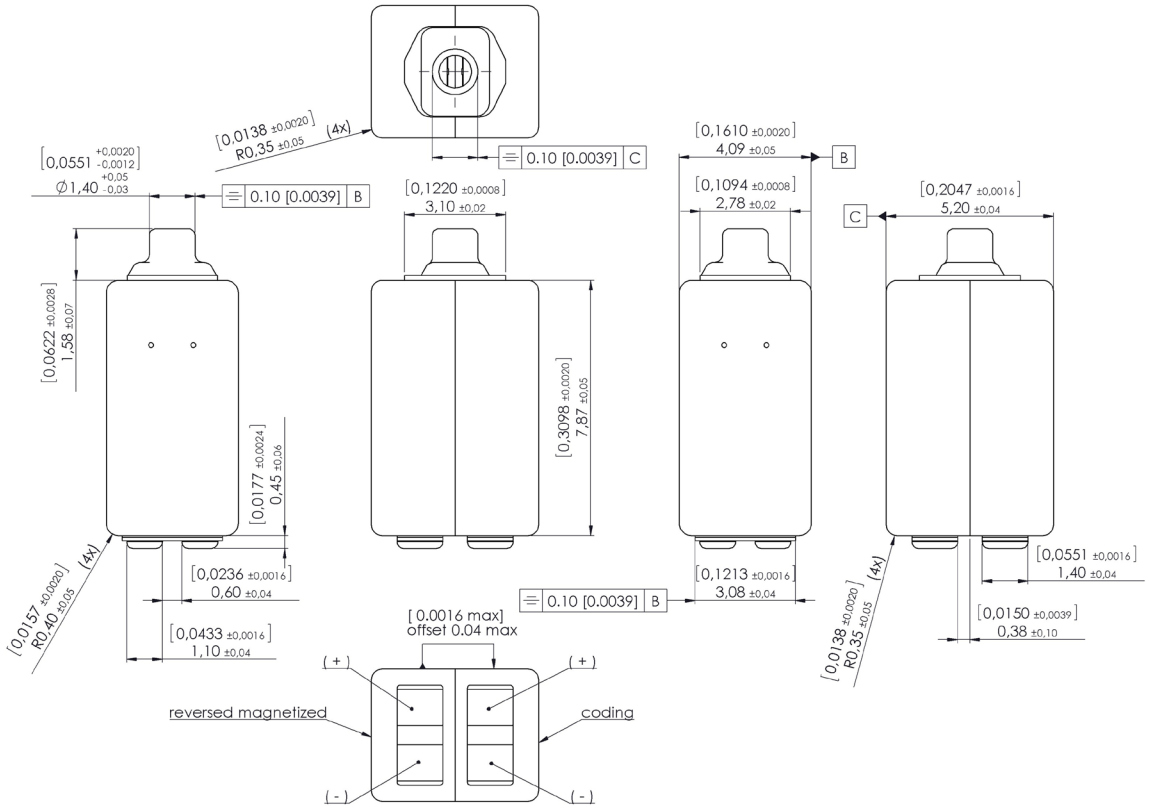
Features

- Perfect for higher power premium BTE applications
- Tandem, twin-motor performance
- Significantly reduced mechanical vibration
- Reduced magnetic radiation
- Reduced thickness compared to standard 3300 receiver

Mechanical data

Weight	0.55 gr.
Case material	Ni80Fe15Mo5
Solder pad material	Sn96.5Ag3.0Cu0.5
Dimensions	Refer to outline drawing

Product drawing - Dimensions in mm [inch]



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Item-Configuration number: 3327-3101559
Version: 2
Version date 13-Jul-2012

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 RMS 0.7 mVA at 500 Hz unless specified otherwise. Environmental conditions: 23 °C (73.4F), 50% RH.

Acoustic parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	110	113	116	dB	
	@ 300 Hz	110	113	116	dB	
	@ 500 Hz	111	114	117	dB	
Peak 1	frequency	750	900	1050	Hz	
	output	120.5	123	125.5	dB	
Valley 1	frequency	1375	1625	1875	Hz	
	output	107.5	110		dB	
Peak 2	frequency	2000	2200	2400	Hz	
	output	116.5	119	121.5	dB	
Valley 2	frequency	2625	2875	3125	Hz	
	output	103	106		dB	
Peak 3	frequency	3150	3450	3750	Hz	
	output	113	116	119	dB	
Valley 3	frequency	3750	4000	4250	Hz	
	output	103.5	106		dB	
Peak 4	frequency	4200	4450	4700	Hz	
	output	107	110	113	dB	
Valley 4	frequency	4900	5200	5500	Hz	
	output	95.5	98		dB	
Peak 5	frequency	5300	5700	6100	Hz	
	output	100	104	108	dB	
THD	@ 1/3 peak			5	%	
	@ 1/2 peak			5	%	
Maximum output @ peak frequency			140		dB	@ 100 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz parallel	17	21	25	Ohm	
Impedance @ 1000 Hz series	67	84	101	Ohm	
Impedance @ 500 Hz parallel	14	18	22	Ohm	
Impedance @ 500 Hz series	58	72	86	Ohm	
DC resistance @ 20°C parallel	11	13	15	Ohm	
DC resistance @ 20°C series	43	50	58	Ohm	

Additional parameters	Min	Typ	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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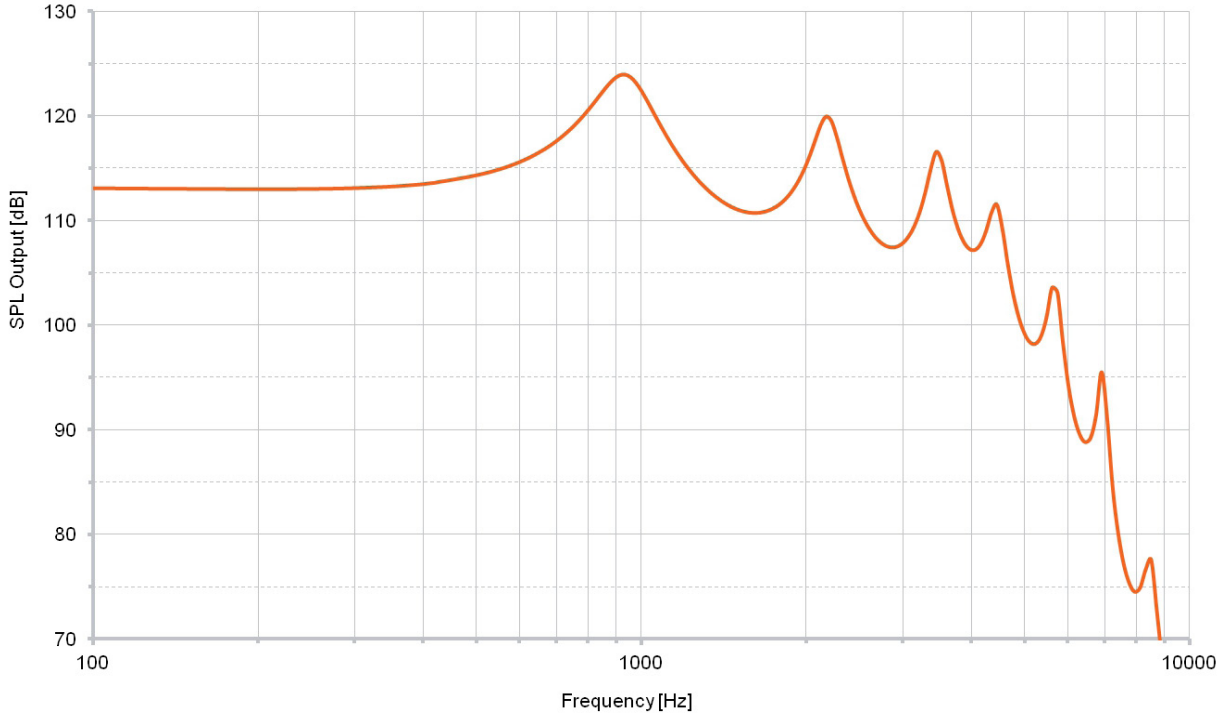
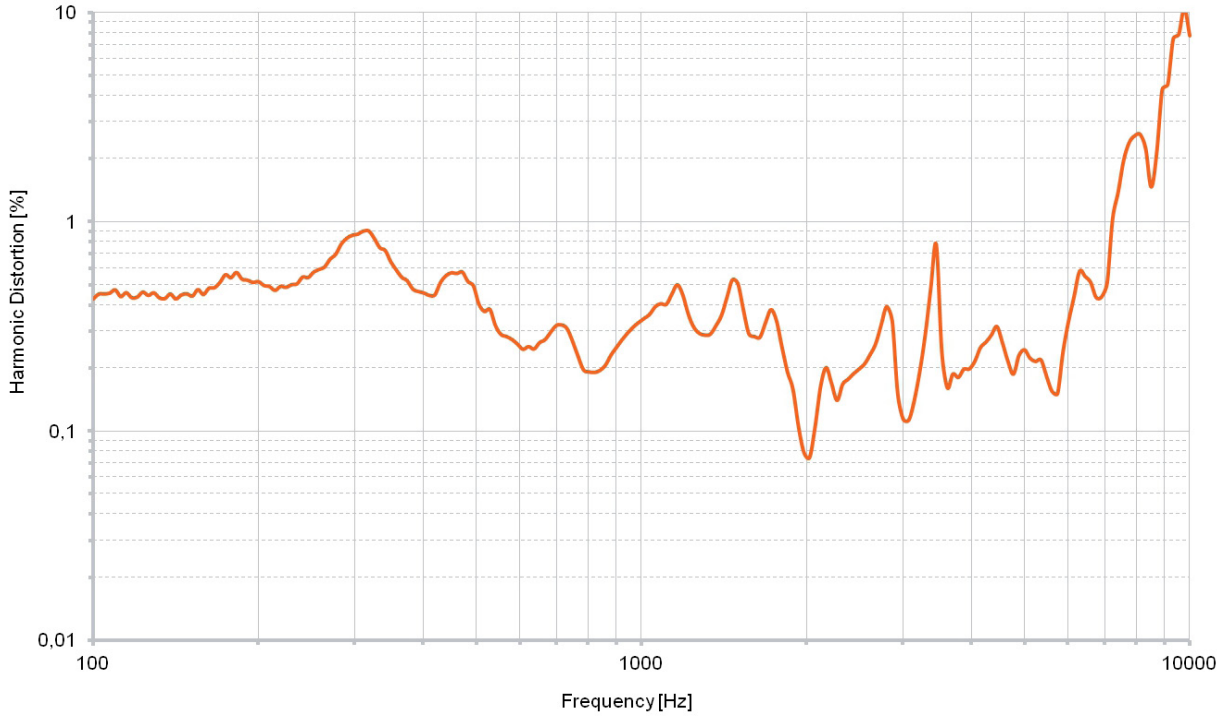
Typical response curve



THD vs Frequency, typical, nominal input



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