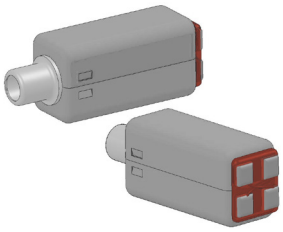
Data Sheet

Receiver E50DT0005/D

Description

Miniature magnetic receiver (Balanced Armature Type) for use in
In Ear Monitors and other audio applications.



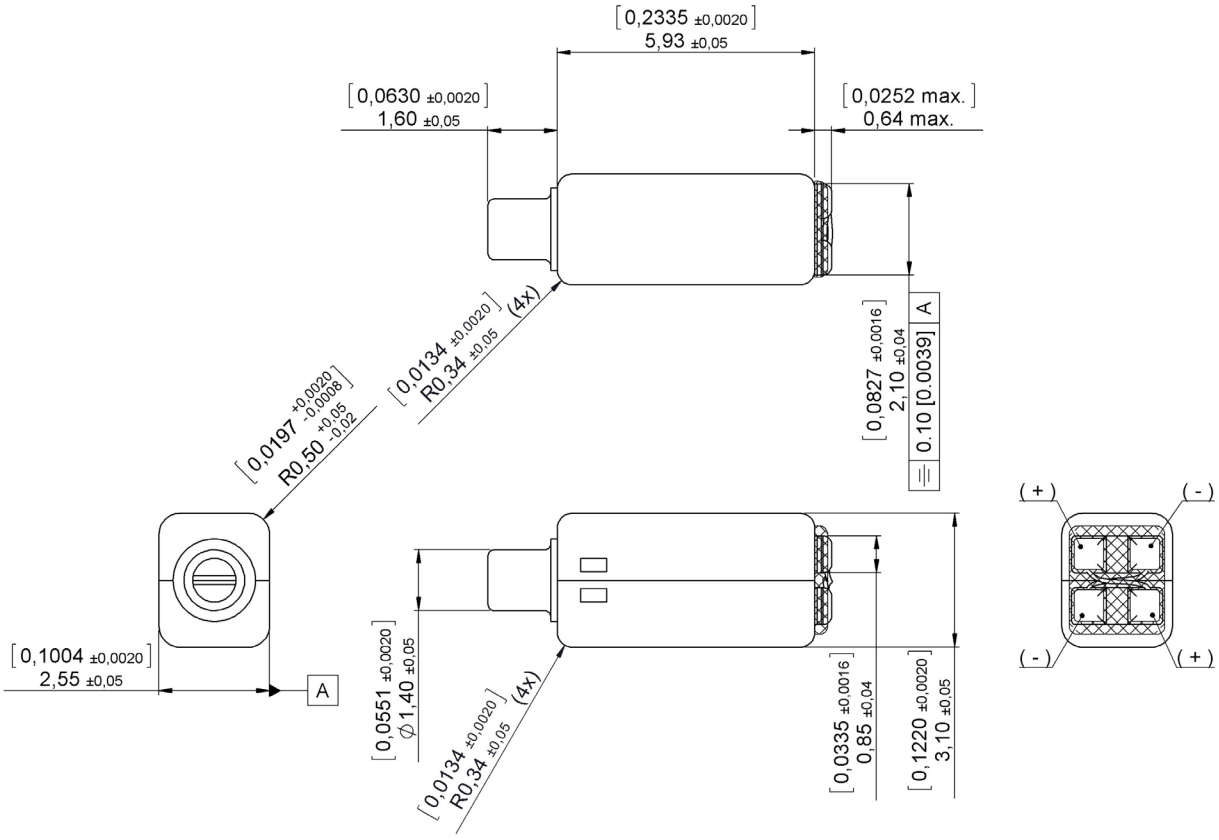
Features

- Dual receiver, parallel connection
- Excellent sound quality, high output
- Wideband response up to 18 kHz
- Silver plated wire
- Application as (super) tweeter for multiway systems from 3 kHz and up
- Hybrid application as (super) tweeter in combination with moving coil transducer

Mechanical data

Weight	0.20 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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Specifications

The 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 100 mV RMS unless specified otherwise.
Environmental conditions: 23°C (73.4F), 50% RH.

Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 200 Hz	103	106	109	dB	
	@ 500 Hz	103.5	106.5	109.5	dB	
	@ 1000 Hz	105.5	108.5	111.5	dB	
Peak 1	frequency	3000	3200	3400	Hz	
	output	119	122	125	dB	
Valley 1	frequency	4000	4350	4700	Hz	
	output	115.5	118.5		dB	
Peak 2	frequency	4900	5400	5900	Hz	
	output	122	125	128	dB	
Valley 2	frequency	7800	8300	8800	Hz	
	output	101.5	104.5		dB	
Peak 3	frequency	9700	10500	11300	Hz	
	output	108	112	116	dB	
THD	@ 1/3 peak		2.5	7	%	
	@ 1/2 peak		2.1	7	%	
Rated power			10		mVA	
Maximum output @ peak frequency			139		dB	

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	5.6	7	8.4	Ohm	
Impedance @ 500 Hz	4.8	6	7.2	Ohm	
DC resistance @ 20°C	4.7	5.5	6.3	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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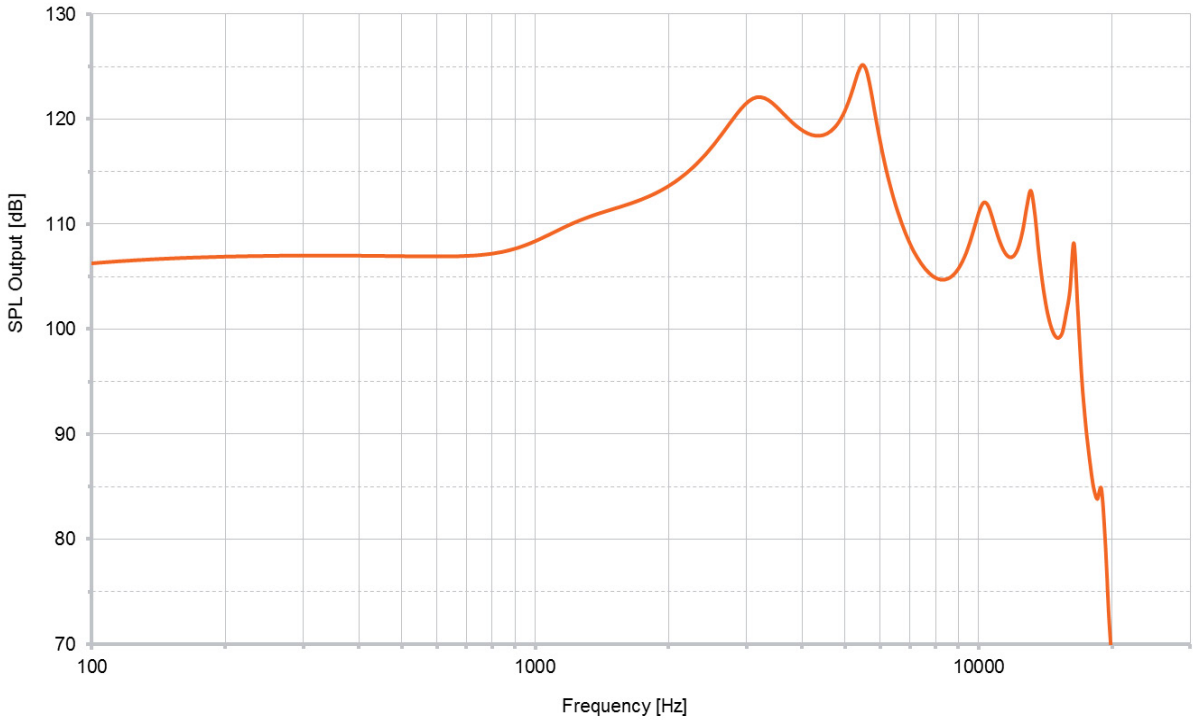
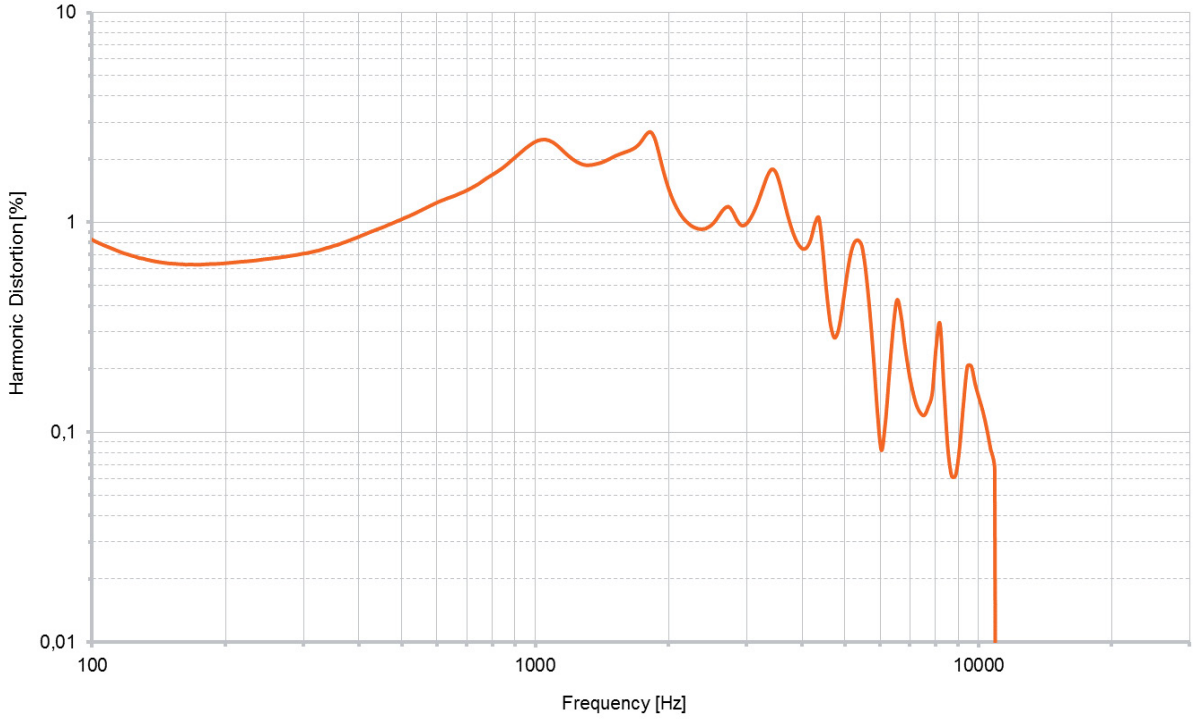
Typical response curve



THD vs Frequency, typical, nominal input



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