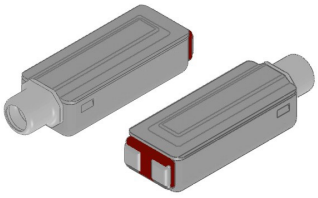
Data Sheet

Receiver E25ST002/D

Description

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



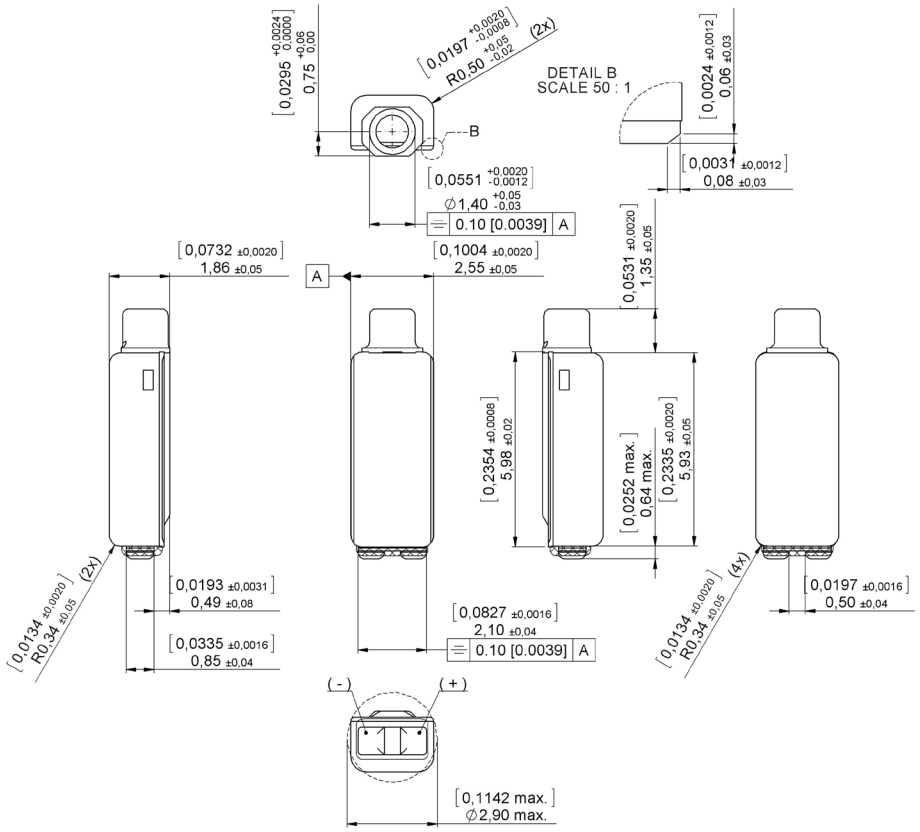
Features

- Small size BA, non vented
- Excellent sound quality
- Wideband response up to 18kHz
- Application as (super) tweeter for multiway systems from 5kHz and up
- Hybrid application as (super) tweeter in combination with Moving Coil transducer

Mechanical data

Weight	0.12 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: 11x1.9mmID + 4.5 x 1.4 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	93.5	96.5	99.5	dB	
	@ 500 Hz	93.5	96.5	99.5	dB	
	@ 1000 Hz	95	98	101	dB	
Peak 1	frequency	3250	3450	3650	Hz	
	output	110.5	113.5	116.5	dB	
Valley 1	frequency	4125	4475	4825	Hz	
	output	107	110		dB	
Peak 2	frequency	5050	5550	6050	Hz	
	output	113.5	116.5	119.5	dB	
Valley 2	frequency	8025	8525	9025	Hz	
	output	92	95		dB	
Peak 3	frequency	10025	10825	11625	Hz	
	output	100	104	108	dB	
THD	@ 1/3 peak		2.6	7	%	
	@ 1/2 peak		3.5	7	%	
Rated power			10		mVA	
Maximum output @ peak frequency					dB	@ 50 mVA input

Electric parameters	Min	Typ	Max	Unit	Comments
Impedance @ 1000 Hz	20.8	26	31.2	Ohm	
Impedance @ 500 Hz	18	22.5	27	Ohm	
DC resistance @ 20°C	17.8	21	24.2	Ohm	
DC bias current range	zero bias				

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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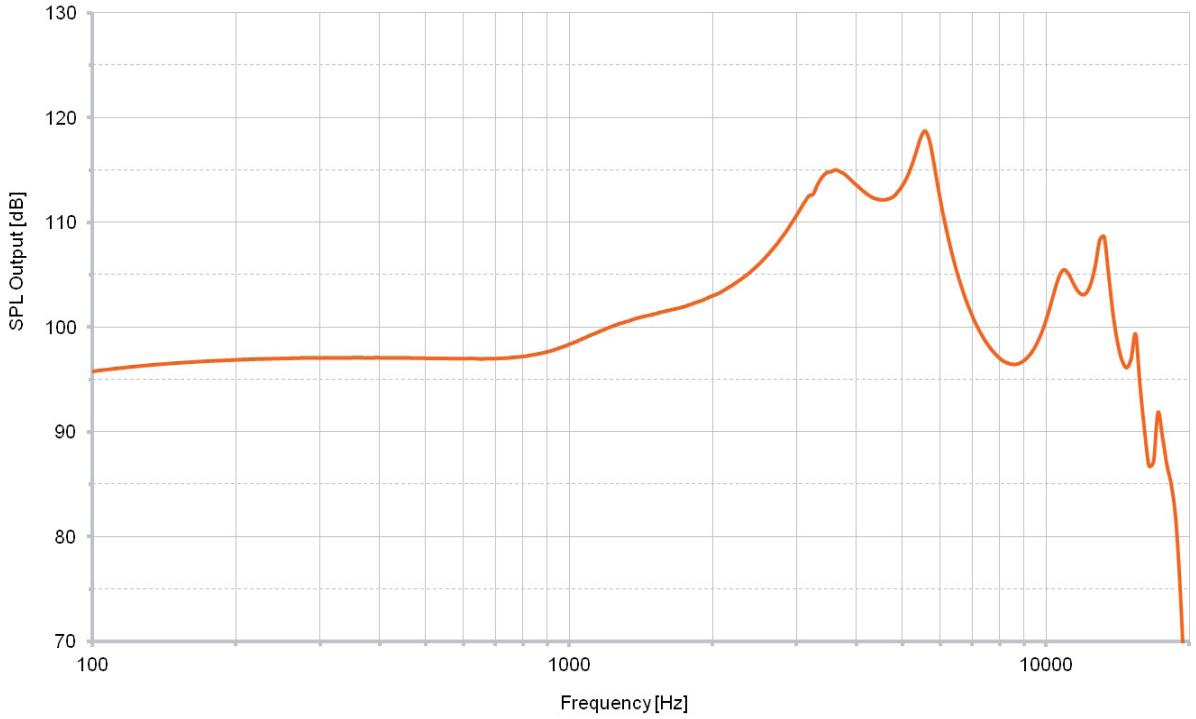
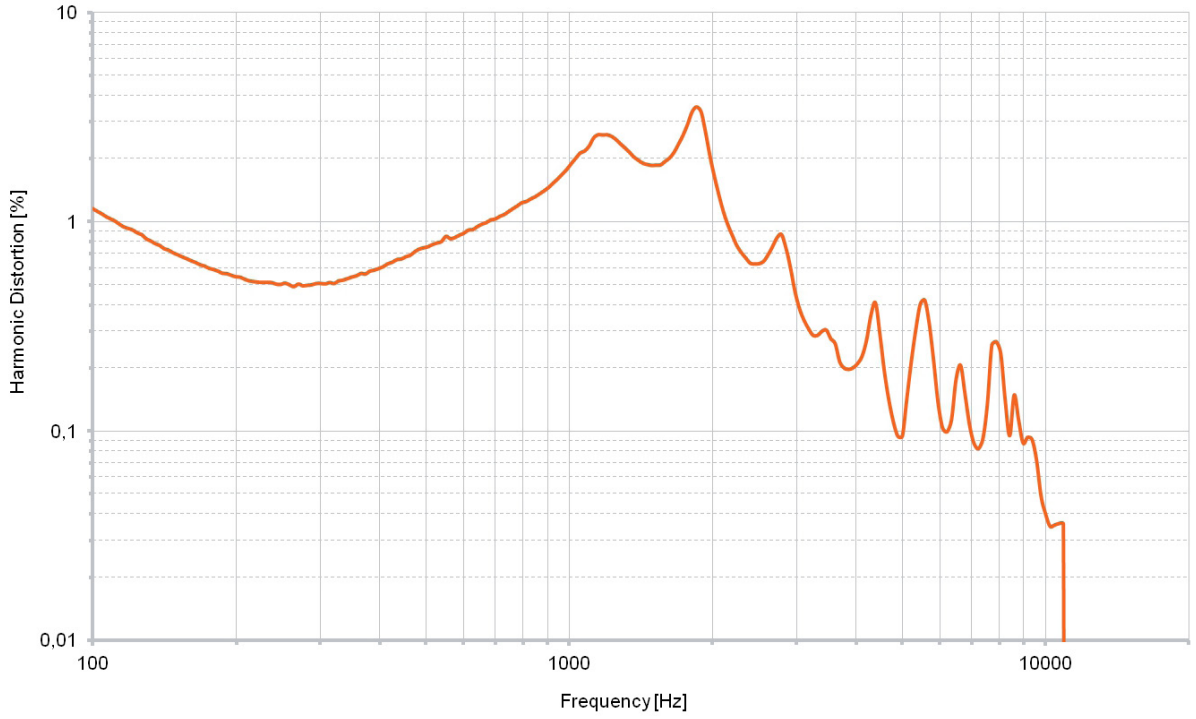
Item-Configuration number: 3220-3108526
Version: 2
Version date 13-Oct-2015

Typical response curve



THD vs Frequency, typical, nominal input



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