



*Esoteric  
Audio  
Devices*



## EAD E100 HD.

The E100 HD looks exactly the same as the E100, from the outside, which is deliberate to make it an easy upgrade in previous designs. The E100 HD matches the standard E100 parameters close enough to just replace the driver in your current design.

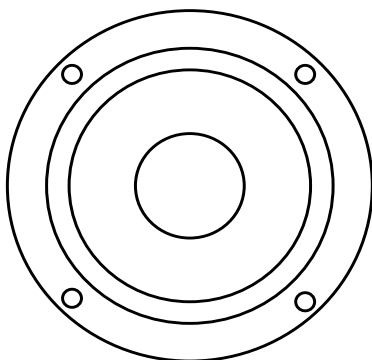
The main difference is in the high frequency, starting from 3Khz and up. As shown in the impedance curve comparison below, the HighFrequency impedance has been vastly improved, giving the E100 HD a very open, 3 dimensional, dynamic and detailed HF response.

The E100HD is an outstanding performer in a single driver system and due to the simplicity, not having to use complex filters, it's easy to build your own High

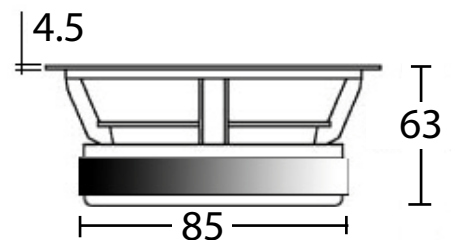
End speaker system system in many different applications.

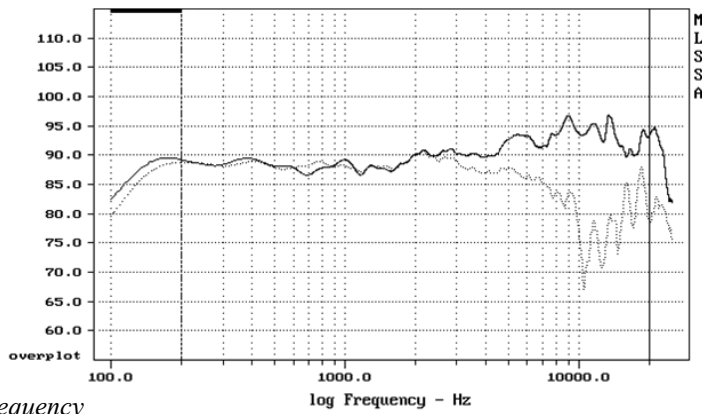
NEW: All new E100 drivers will now come with individual factory parameters!

140 m.m.

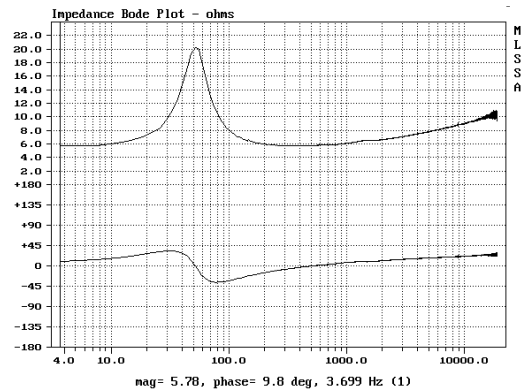


Fixing holes 4x5 m.m. on 132 PCD.  
Baffle cutout 113 m.m.

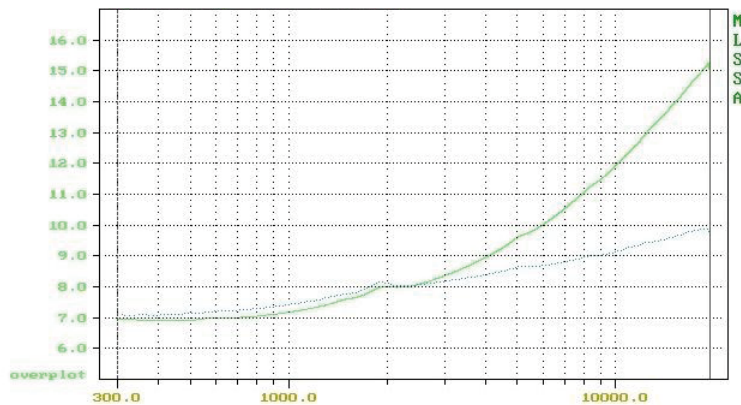




Frequency



mag= 5.78, phase= 9.8 deg, 3.699 Hz (1)



Impedance, Std vs. HD (Dotted)

### Parameters

#### Thiele/Small Parameters, (8 ohm)

Title: Measured Parameters  
 Method: Fixed-Mmd (6.300 grams)  
 DCR mode: Fixed (5.48 ohms)  
 Area (Sd): 78.58 sq cm  
 Series resistance: 75.00 ohms  
 Stimulus level: 3.83 volts  
 SPLref reference impedance: NONE  
 Large units (volume = liters, mass = grams)  
 50.11 "Fs Hz"  
 5.490 "Re Ohms"  
 1.90 "Qms "  
 0.70 "Qes "  
 0.51 "Qts "  
 0.07 "L1 mH"  
 0.26 "L2 mH"  
 12.44 "Vas(Sd) liters"  
 6.694 "Mms(Sd) grams"  
 1435 "Cms(Sd) æM/Newton"  
 4.12 "Bl(Sd) Tesla-M"  
 87.28 "SPLref(Sd) dB "  
 0.035 "Rub-index "  
 X-max +/- 4.5mm (9 m.m. p-p)  
 Power 60W cont. 100W Max.In music

### Test conditions:

**Break in** : 15min at 10V at resonance.

**Equipment** : MLSSA 10 WI Rev 8 with RCAI Box

**Stimulus level for Parameter measurement** : 3.83 V and 2.83 V for SPL.

**Frequency plot** (2 pi measurement) in flat baffle. Anechoic chamber 4 mtr width x 3 mtr depth. Walls lined up with 1 1/2' high density glass wool wedges.

**Microphone** : G.R.A.S. 1/2" Free Field Microphone 40AC with Preamp 26AK and **Power module**: 12AK

**Temperature** : 24 deg C, Humidity 80%

**Fs Method** : Fixed Mass

*All parameters are preliminary and subject to change. Last update: 2012-08-30*