



## **C158-8-085 CERAMIC BASS-MIDRANGE**

### **CLOSED BOX DESIGN PARAMETERS**

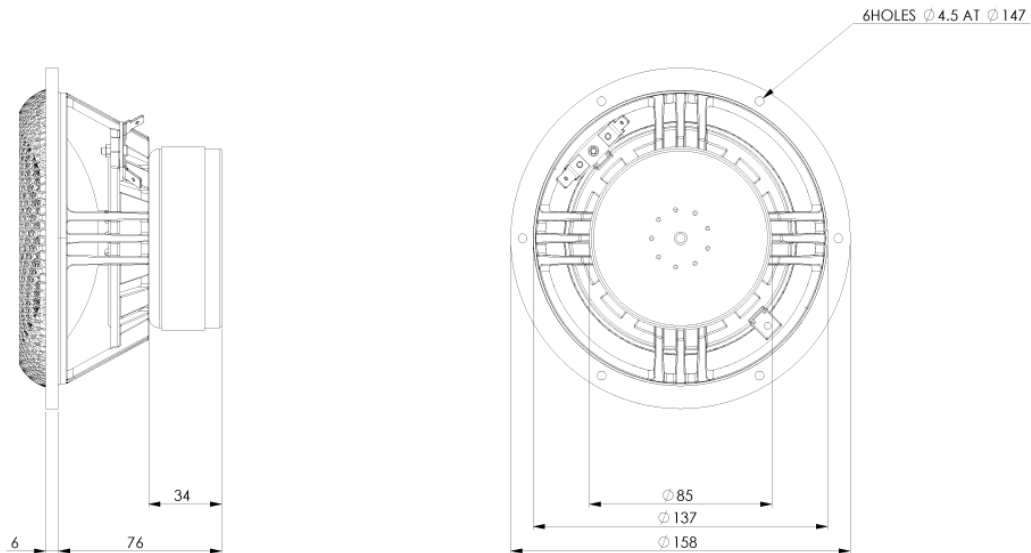
Vb: 8.5L, -11dB @ 40Hz, F-3dB: 70Hz, Q: 0.71 (typical)  
Vb: 22L, -8.5dB @ 40Hz, F-3dB: 70Hz, Q: 0.50 (extended bass)

### **VENTED BOX DESIGN PARAMETERS**

Vb: 15L, Port diameter: 50mm, Length: 190mm, Fres: 41Hz, F-3dB: 45Hz, Q: 0.58 (typical)  
Vb: 22L, Port diameter: 50mm, Length: 130mm, Fres: 40Hz, F-3dB: 40Hz, Q: 0.50 (extended bass)  
Vb: 12L, Port diameter: 50mm, Length: 200mm, Fres: 45Hz, F-3dB: 49Hz, Q: 0.61 (0.7dB Ripple @ 100Hz)

### **HIGHLIGHTS**

6.25 inch bass-midrange for small bookshelf monitors or slim floorstanders.  
 Small and light voice coil with 25mm titanium.  
 Voice coil former for high midrange resolution.  
 Long excursion design for high SPL capabilities.



|                         |               |
|-------------------------|---------------|
| Dome material           | Ceramic       |
| Application             | Bass-Midrange |
| Overall diameter        | 158 MM        |
| Cutout Diameter/Square  | 137 MM        |
| Overall depth           | 82 MM         |
| Motor assembly depth    | 34 mm         |
| Motor assembly diameter | 85 mm         |
|                         |               |

## MAIN FEATURES

overhung motor design  
 25 mm Titanium VC Former  
 Soft Rubber Surround  
 Vented VC, Pole Piece & Spider  
 38 HZ - 3 KHZ in vented Box

## MECHANICAL DATA

| Specification             | Wert                        | Einheit |
|---------------------------|-----------------------------|---------|
| Overall diameter          | 158                         | mm      |
| Cutout Diameter/Square    | 137                         | mm      |
| Min. frontplate thickness | 6                           | mm      |
| Overall depth             | 82                          | mm      |
| Motor assembly depth      | 34                          | mm      |
| Motor assembly diameter   | 85                          | mm      |
| Screwfitting              | DIN 7984 / Ø 4.50           | mm      |
| Terminal                  | +: 6.3 x 0.8 / -: 4.8 x 0.8 | mm      |
| Shipping weight (pair))   | 3.4                         | Kg      |
| Shipping box size (pair)  | 200/200/250                 | mm      |
|                           |                             |         |

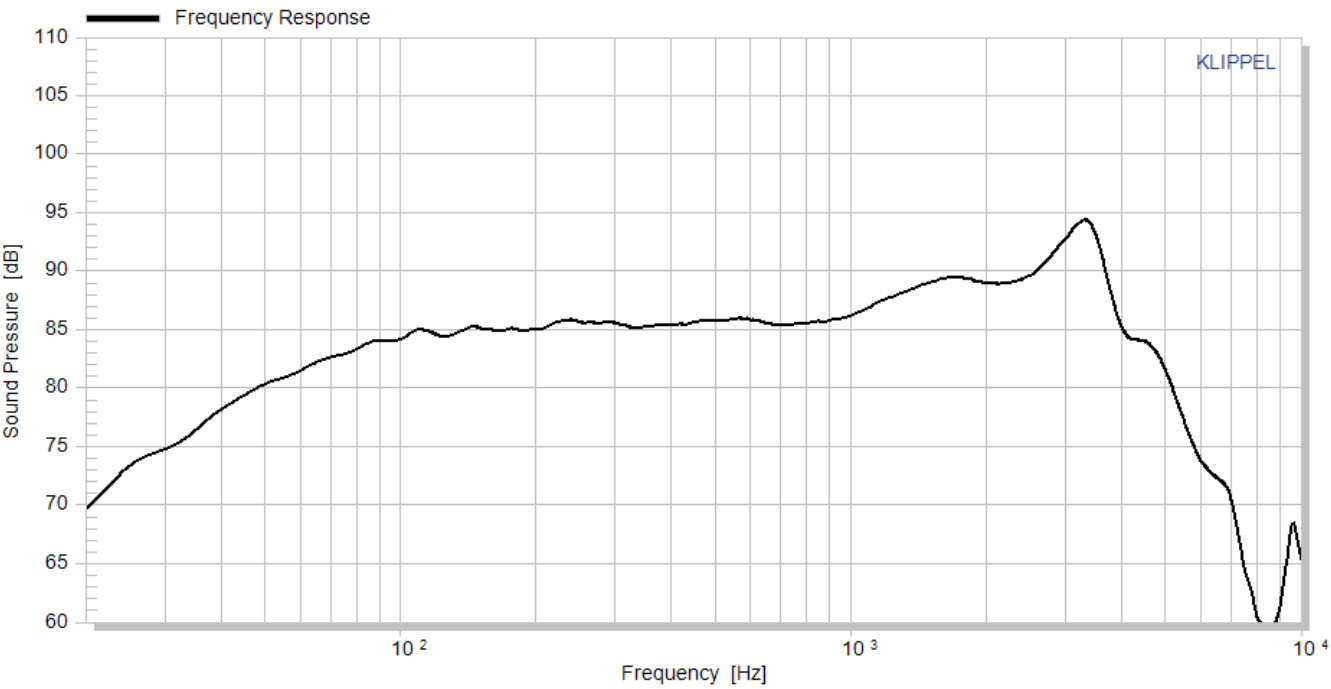
## THIELE/SMALL PARAMETERS

| Specification            |     | Value | Unit |
|--------------------------|-----|-------|------|
| Sensitivity (2.83V / 1m) | Spl | 87.5  | dB   |
| DC-resistance            | Re  | 8.1   | Ohm  |
| Resonance frequency      | Fs  | 37    | Hz   |
| Equivalent volume of air | Vas | 27.3  | ltr  |
| Mechanical Q             | Qms | 4.91  |      |
| Electrical Q             | Qes | 0.39  |      |
| Total Q                  | Qts | 0.36  |      |
| Effective piston area    | Sd  | 113   | Cm2  |
| Moving mass              | Mms | 12.1  | g    |
| Suspension compliance    | CMs | 1.5   | mm/n |
| Mechanical resistance    | Rms | 0.58  | Kg*s |
|                          |     |       |      |

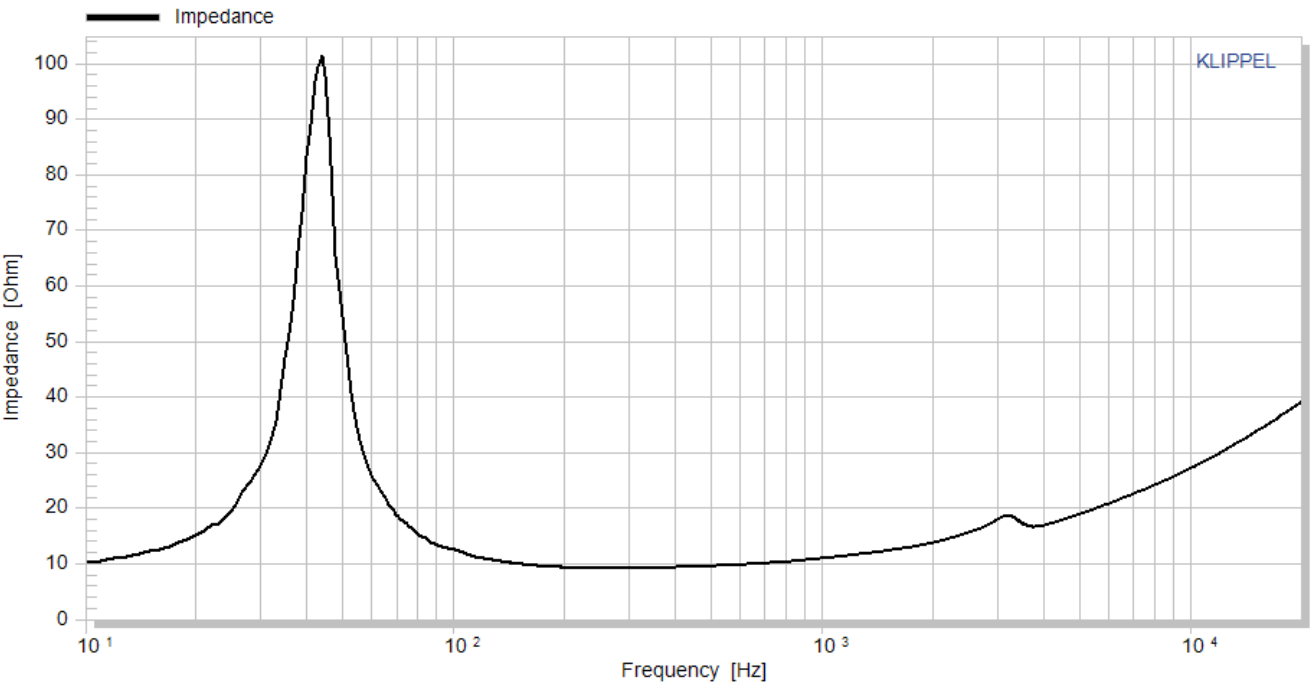
SCHWINGSPULENPARAMETER

| Specification              |      | Value    | Unit |
|----------------------------|------|----------|------|
| Power handling             | P    | 100      | W    |
| Linear excursion           | Xmax | +/-5     | mm   |
| Voice coil diameter        |      | 25       | mm   |
| Voice coil former material |      | Ti       |      |
| Voice coil material        |      | Cu       |      |
| Voice coil inductance      | Le   | 0.54     | mH   |
| Force factor               | Bl   | 7.7      | N/A  |
| Motor type                 |      | Overhung |      |
| Ferrofluid filling         |      | No       |      |
|                            |      |          |      |

FREQUENCY RESPONSE [DB]



# IMPEDANCE [OHM]



# HARMONIC DISTORTION [%]

