

## KEY FEATURES

- High power handling: 800 W program power
- 3" copper wire voice coil
- High sensitivity: 98 dB (1W / 1m)
- Optimized pressed steel frame
- FEA optimized ceramic magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- Waterproof cone treatment on both sides of the cone
- Low harmonic distortion and linear response
- Wide range of applications of low and mid-low frequencies

## TECHNICAL SPECIFICATIONS

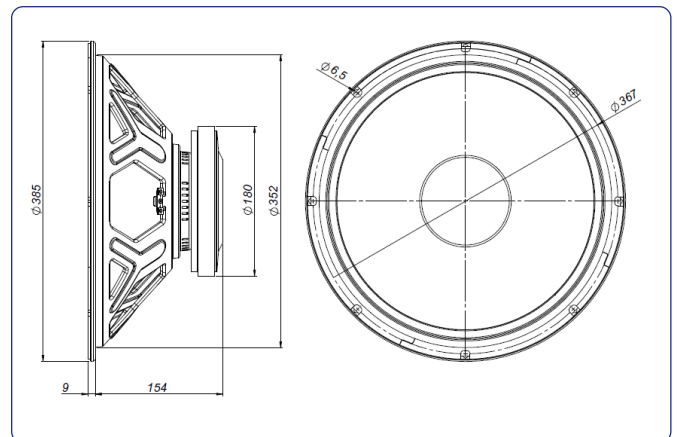
Nominal diameter	380 mm	15 in
Rated impedance		8 $\Omega$
Minimum impedance		7 $\Omega$
Power capacity*		400 W <sub>AES</sub>
Program power		800 W
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		40 - 4.000 Hz
Recom. enclosure vol.	70 / 150 l	2,45 / 5,25 ft <sup>3</sup>
Voice coil diameter	77 mm	3 in
BI factor		18,7 N/A
Moving mass		0,096 kg
Voice coil length		16 mm
Air gap height		8 mm
X <sub>damage</sub> (peak to peak)		30 mm

## THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	35 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	9,1
Electrical Quality Factor, Q <sub>es</sub>	0,34
Total Quality Factor, Q <sub>ts</sub>	0,33
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	233 l
Mechanical Compliance, C <sub>ms</sub>	213 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	2,3 kg / s
Efficiency, $\eta_0$	2,8 %
Effective Surface Area, S <sub>d</sub>	0,088 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	6,3 mm
Displacement Volume, V <sub>d</sub>	555 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	1,1 mH



## DIMENSION DRAWINGS



## MOUNTING INFORMATION

Overall diameter	385 mm	15,15 in
Bolt circle diameter	367 mm	14,44 in
Baffle cutout diameter:		
- Front mount	353 mm	13,90 in
Depth	163 mm	6,42 in
Net weight	6,2 kg	13,7 lb
Shipping weight	7,2 kg	15,9 lb

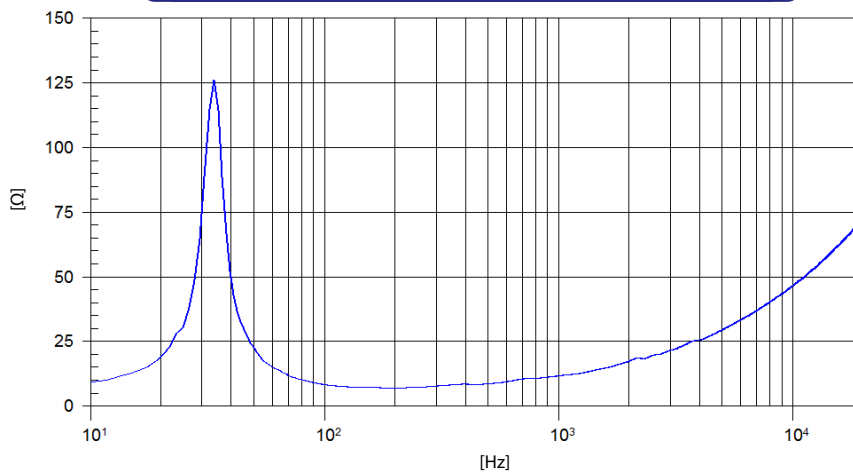
### Notes:

\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

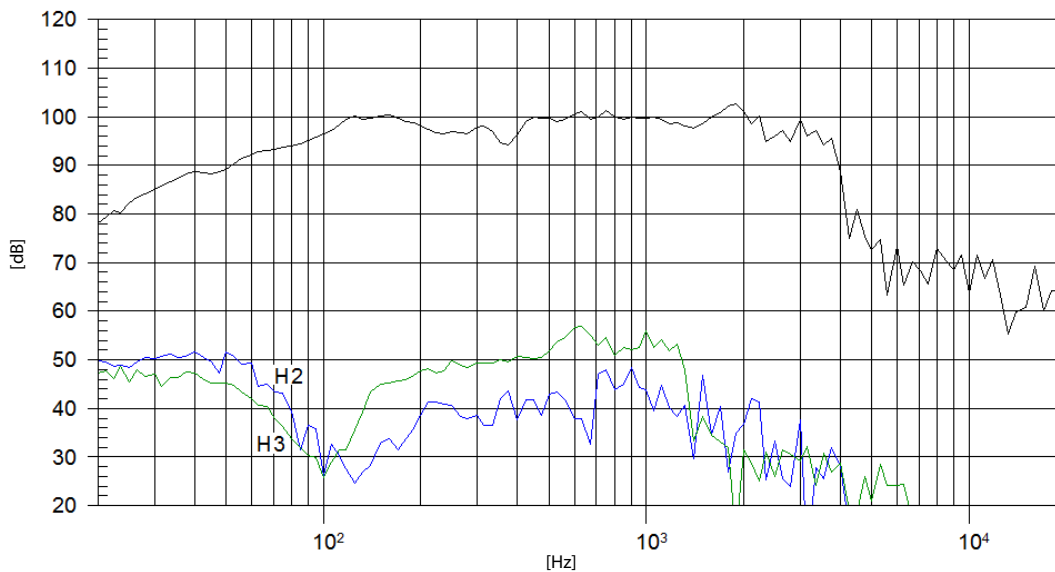
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

## FREE AIR IMPEDANCE CURVE



## FREQUENCY RESPONSE AND DISTORTION



**Note:** On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m