

### KEY FEATURES

- High power handling: 1.000 W program power
- 2,5" copper wire voice coil
- Malt Cross<sup>®</sup> Cooling System
- Low power compression looses
- High sensitivity: 98 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- Aluminum demodulating ring
- Waterproof cone treatment on both sides of the cone
- Extended controlled displacement ( $X_{max}$ ): 8 mm
- $X_{damage} \pm 40$  mm
- Weight 5,8 kg
- Optimized for 2 or 3 way PA systems and line array applications

### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		5,8 $\Omega$
Power capacity*		500 W <sub>AES</sub>
Program power		1.000 W
Sensitivity	98 dB	@ 1W @ Z <sub>N</sub>
Frequency range		50 - 5.500 Hz
Recom. enclosure vol.	30 / 100 l	1,06 / 3,53 ft <sup>3</sup>
Voice coil diameter	63,5 mm	2,5 in
BI factor		17,3 N/A
Moving mass		0,059 kg
Voice coil length		19,5 mm
Air gap height		10 mm
$X_{damage}$ (peak to peak)		40 mm

### MOUNTING INFORMATION

Overall diameter	312 mm	12,28 in
Bolt circle diameter	294,5 mm	11,59 in
Baffle cutout diameter:		
- Front mount	278 mm	10,94 in
- Rear mount	275 mm	10,83 in
Depth	140 mm	5,51 in
Net weight	5,8 kg	12,9 lb

#### Notes:

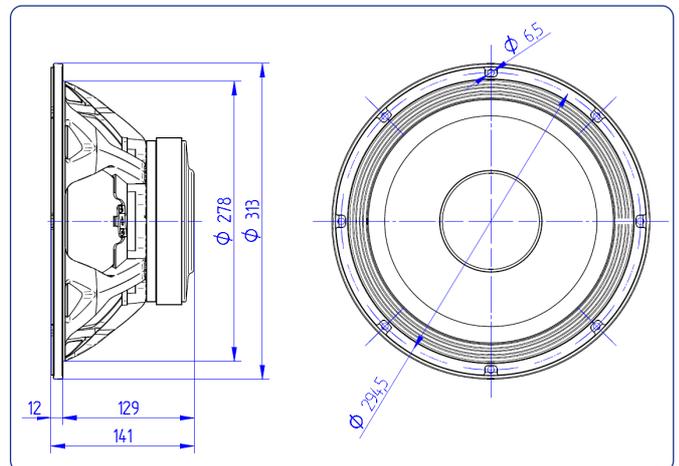
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

\*\* 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  $X_{max}$  is calculated as  $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$ , where  $L_{vc}$  is the voice coil length and  $H_{ag}$  is the air gap height.



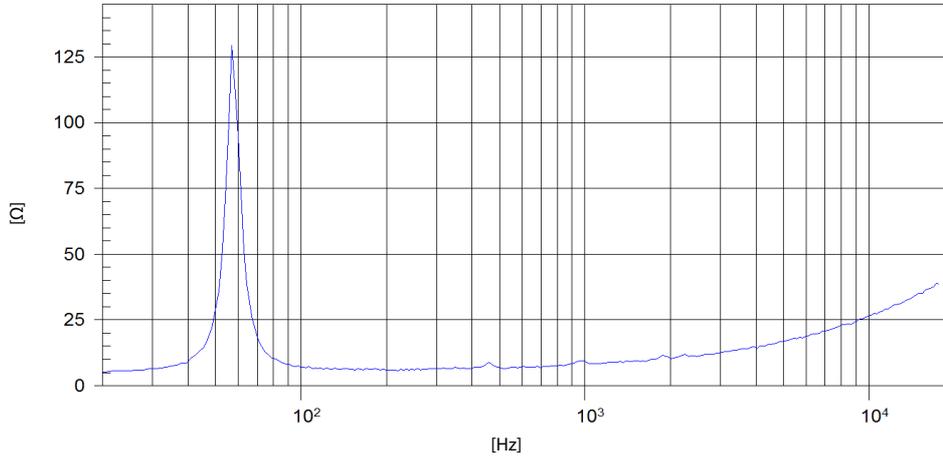
### DIMENSION DRAWINGS



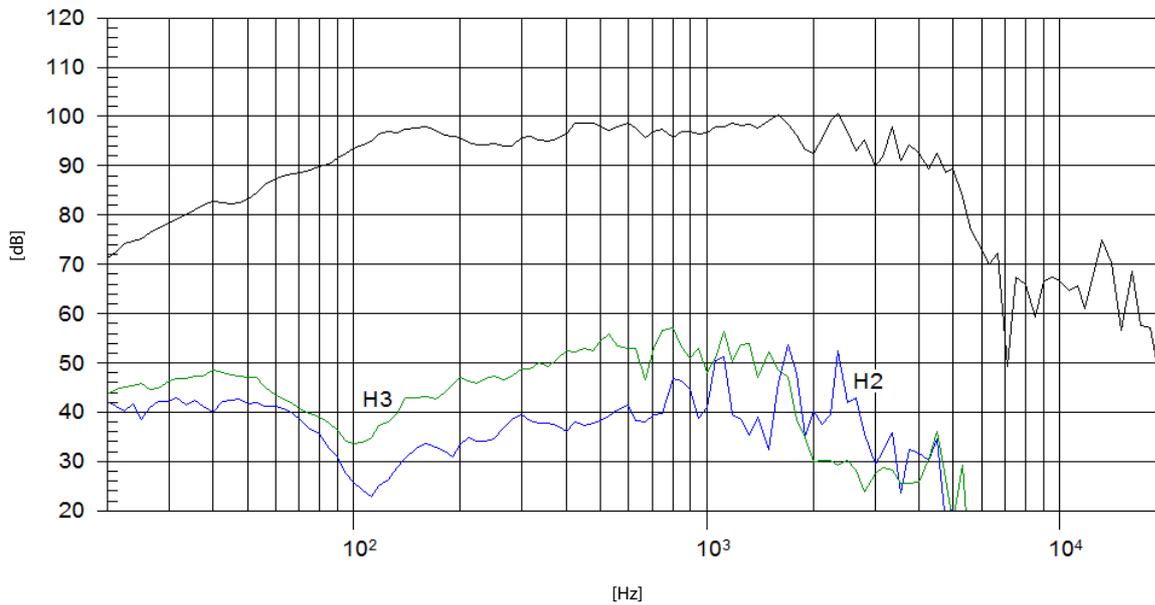
### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	57 Hz
D.C. Voice coil resistance, $R_e$	5,5 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	8,58
Electrical Quality Factor, $Q_{es}$	0,39
Total Quality Factor, $Q_{ts}$	0,38
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	54,9 l
Mechanical Compliance, $C_{ms}$	128 $\mu$ m / N
Mechanical Resistance, $R_{ms}$	2,50 kg / s
Efficiency, $\eta_0$	2,55 %
Effective Surface Area, $S_d$	0,055 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	8 mm
Voice Coil Inductance, $L_e$	0,7 mH

## 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