

### KEY FEATURES

- High power handling: 1.000 W program power
- 2,5" copper wire voice coil
- Beyma's Malt Cross® ultimate Cooling System
- Low power compression losses
- High sensitivity: 97 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion. LSI optimized parameters
- Aluminum demodulating ring
- Waterproof cone with treatment for both sides of the cone
- Extended controlled displacement:  $X_{max} \pm 8$  mm
- Massive mechanical displacement capability:  $X_{damage} \pm 40$  mm
- Optimized for 2 or 3 way PA systems and line arrays for ultimate professional applications

### TECHNICAL SPECIFICATIONS

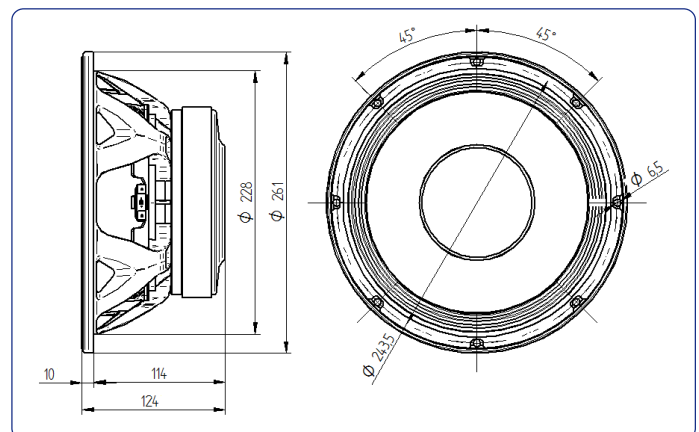
Nominal diameter	250 mm	10 in
Rated impedance		8 $\Omega$
Minimum impedance		6,1 $\Omega$
Power capacity*	500 W <sub>AES</sub>	
Program power	1000 W	
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	60 - 5.000 Hz	
Voice coil diameter	63,5 mm	2,5 in
BI factor		18,3 N/A
Moving mass		0,044 kg
Voice coil length		19,5 mm
Air gap height		9,5 mm
$X_{damage}$ (peak to peak)		40 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	60 Hz
D.C. Voice coil resistance, $R_e$	5,7 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	7,5
Electrical Quality Factor, $Q_{es}$	0,29
Total Quality Factor, $Q_{ts}$	0,28
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	26 l
Mechanical Compliance, $C_{ms}$	154 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	2,3 kg / s
Efficiency, $\eta_0$	2 %
Effective Surface Area, $S_d$	0,035 $\text{m}^2$
Maximum Displacement, $X_{max}$ ***	8 mm
Displacement Volume, $V_d$	280 $\text{cm}^3$
Voice Coil Inductance, $L_e$ @ 1 kHz	1 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	261 mm	10,28 in
Bolt circle diameter	243,5 mm	9,59 in
Baffle cutout diameter:		
- Front mount	228 mm	8,98 in
Depth	124 mm	4,86 in
Net weight	5,7 kg	12,5 lb
Shipping weight	6,1 kg	13,45 lb

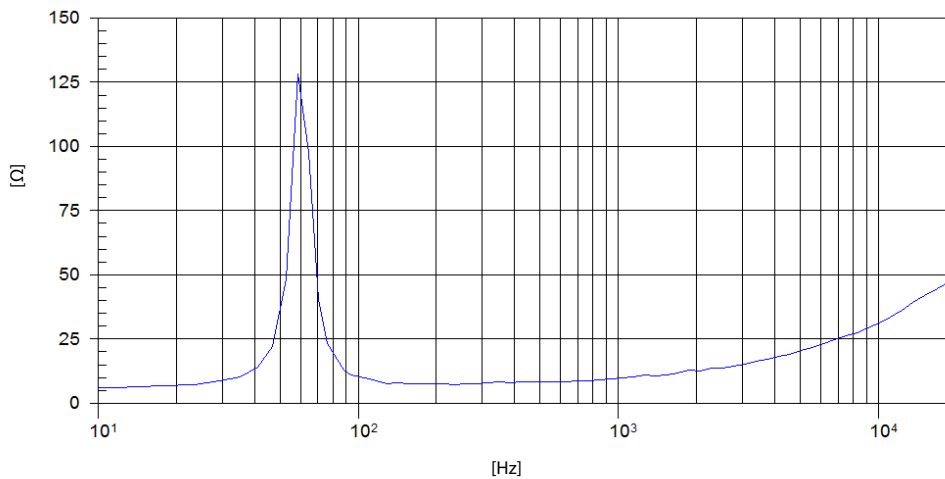
#### Notes:

\* 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.

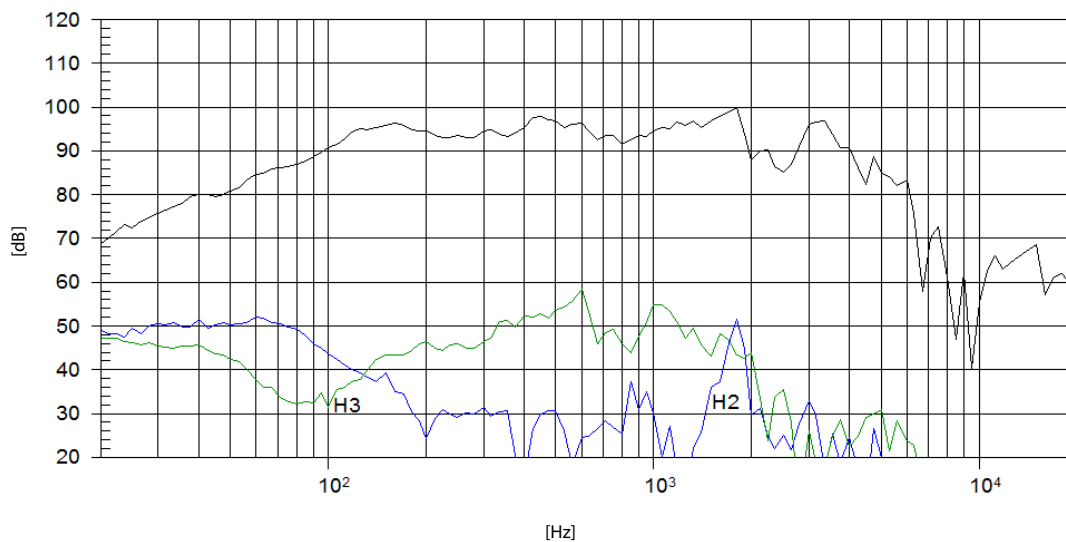
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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.

### 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