

## KEY FEATURES

- High power handling: 1000 W program power
- 2,5" copper wire voice coil
- Beyma's Malt Cross® ultimate Cooling System
- Low power compression losses
- High sensitivity: 96 dB (1W / 1m)
- Optimized pressed steel frame
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion. LSI optimized parameters
- Waterproof cone with treatment for both sides of the cone
- Optimized for 2 or 3 way PA systems and line arrays for ultimate professional applications

## TECHNICAL SPECIFICATIONS

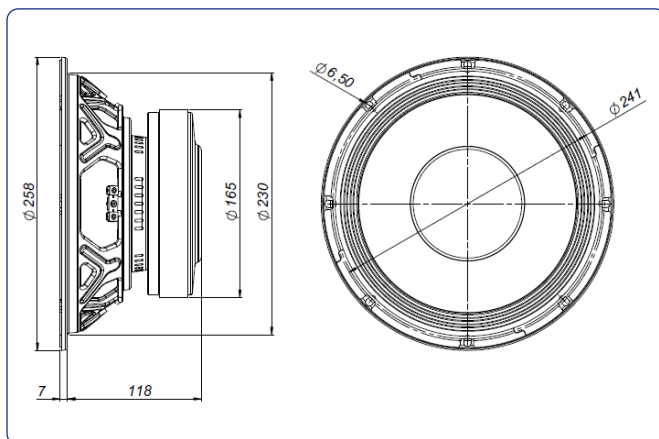
Nominal diameter	250 mm	10 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity*		500 W <sub>AES</sub>
Program power		1.000 W
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		70 - 5.000 Hz
Voice coil diameter	63,5 mm	2,5 in
BI factor		17,6 N/A
Moving mass		0,047 kg
Voice coil length		19,5 mm
Air gap height		9,5 mm
X <sub>damage</sub> (peak to peak)		40 mm

## THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	70 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,7 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	10,1
Electrical Quality Factor, Q <sub>es</sub>	0,38
Total Quality Factor, Q <sub>ts</sub>	0,37
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	18,8 l
Mechanical Compliance, C <sub>ms</sub>	109 μm / N
Mechanical Resistance, R <sub>ms</sub>	2,05 kg / s
Efficiency, η <sub>0</sub>	1,65 %
Effective Surface Area, S <sub>d</sub>	0,035 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	8 mm
Displacement Volume, V <sub>d</sub>	280 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	1,1 mH



## DIMENSION DRAWINGS



## MOUNTING INFORMATION

Overall diameter	258 mm	10,15 in
Bolt circle diameter	241 mm	9,49 in
Baffle cutout diameter:		
- Front mount	230 mm	9,05 in
Depth	125 mm	4,92 in
Net weight	5,7 kg	12,56 lb
Shipping weight	6,1 kg	13,45 lb

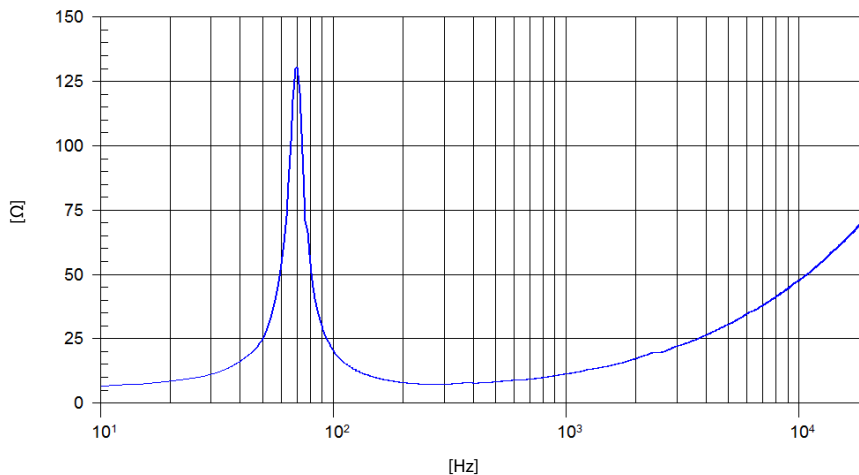
### Notes:

\* 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.

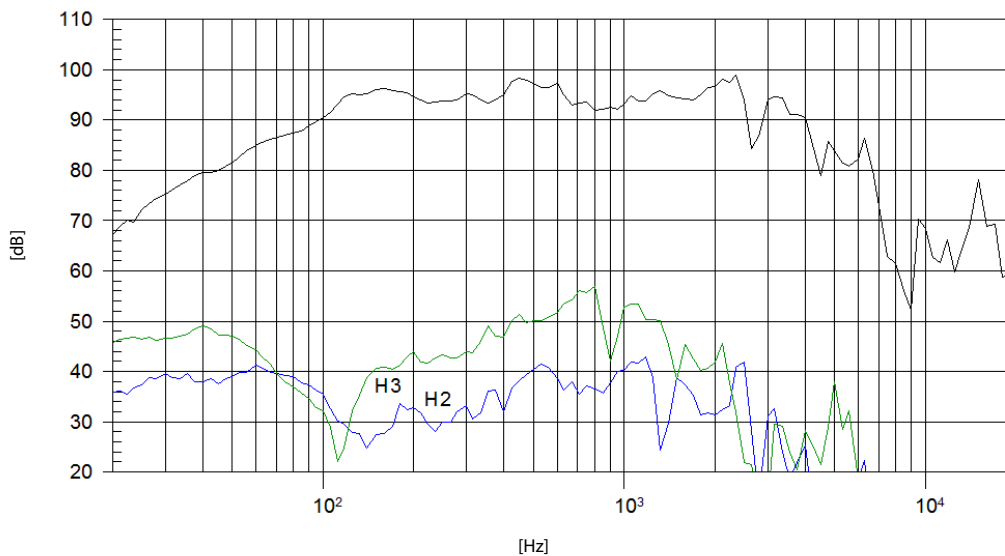
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* The X<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