

### KEY FEATURES

- High power handling: 440 W program power
- 1.5" copper wire voice coil
- High sensitivity: 94 dB (1W / 1m)
- Very linear extended response and low distortion
- Treated double roll cloth surround
- Pressed steel frame
- Ferrite magnet
- Designed for bass and midbass applications in compact vented cabinets



### TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 $\Omega$
Minimum impedance		6,6 $\Omega$
Power capacity*		220 W <sub>AES</sub>
Program power		440 W
Sensitivity	94 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		95 - 8.000 Hz
Recom. enclosure (Bass-reflex design)		V <sub>b</sub> = 9 l F <sub>b</sub> = 87 Hz
Voice coil diameter	38,1 mm	1,5 in
Bl factor		10 N/A
Moving mass		0,016 kg
Voice coil length		14 mm
Air gap height		6 mm
X <sub>damage</sub> (peak to peak)		30 mm

Notes:

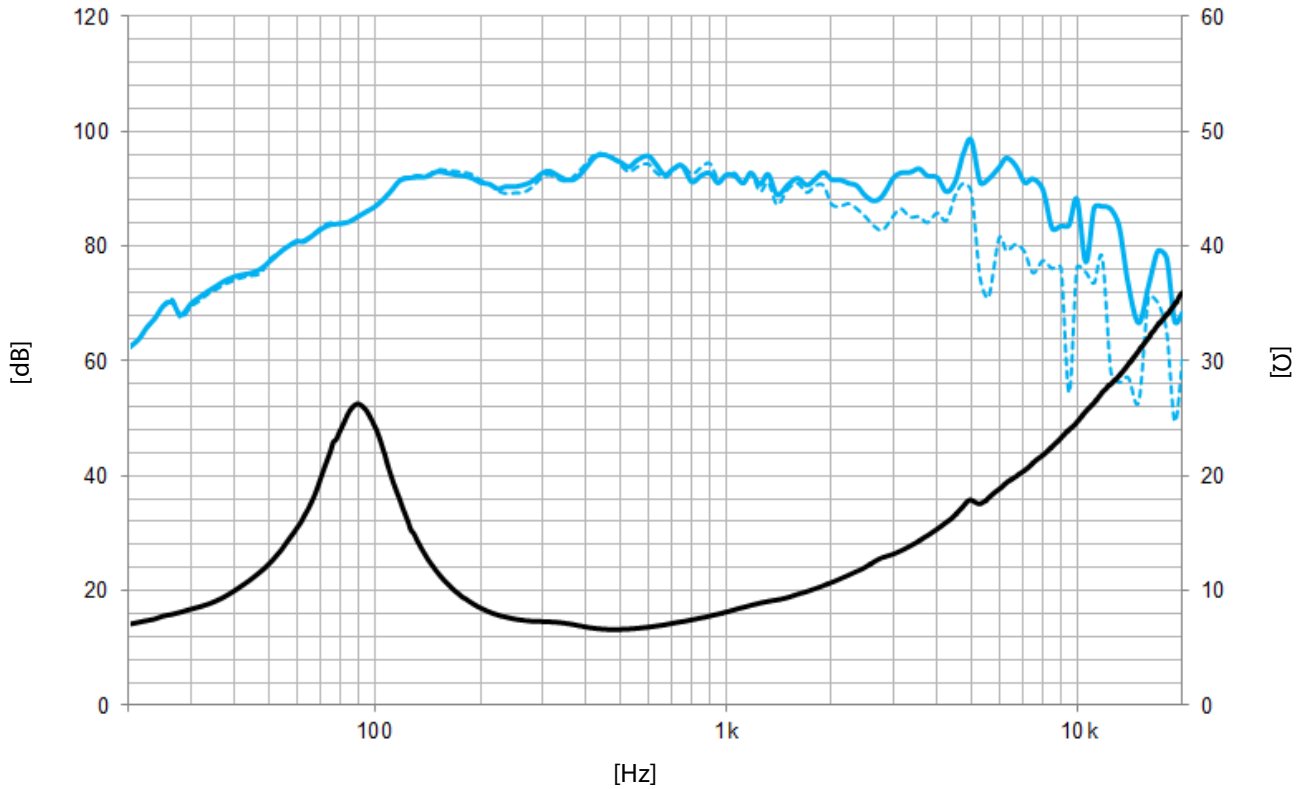
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

\*\* 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.

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	92 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,2 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	2
Electrical Quality Factor, Q <sub>es</sub>	0,47
Total Quality Factor, Q <sub>ts</sub>	0,38
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	5,2 l
Mechanical Compliance, C <sub>ms</sub>	189 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	4,6 kg / s
Efficiency, $\eta_0$	0,81 %
Effective Surface Area, S <sub>d</sub>	0,014 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	5,7 mm
Displacement Volume, V <sub>d</sub>	80 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	0,5 mH



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

— Frequency response on axis  
- - - Frequency response 45° off axis

### MOUNTING INFORMATION

Overall diameter	167 mm	6,6 in
Bolt circle diameter	156 mm	6,1 in
Baffle cutout diameter:		
- Front mount	140 mm	5,5 in
Depth	80 mm	3,1 in
Net weight	2,2 kg	4,8 lb
Shipping weight	2,3 kg	5,1 lb

### DIMENSION DRAWING

