

### KEY FEATURES

- 4" full-range compact neodymium loudspeaker
- 80 W program power
- Extended response and low distortion
- Paper cone and Santoprene™ surround
- Pressed steel basket
- Neodymium magnet
- Ideal for beam-steering application (columns), portable array and compact applications

### TECHNICAL SPECIFICATIONS

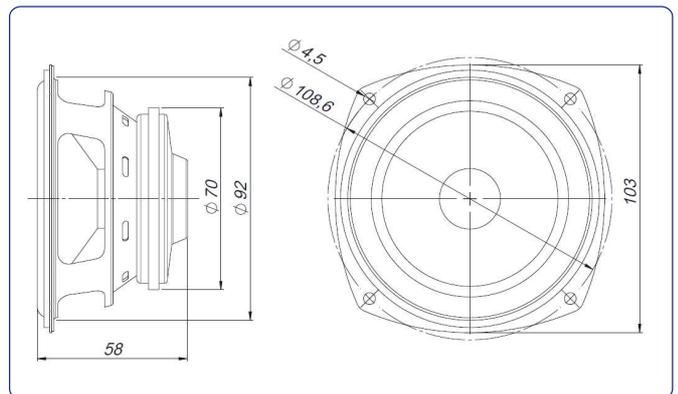
Nominal diameter	100 mm	4 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity*		40 W <sub>AES</sub>
Program power		80 W
Sensitivity	88 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		100 - 20.000 Hz
Voice coil diameter	20,3 mm	0,8 in
BI factor		4,7 N/A
Moving mass		0,0045 kg
Voice coil length		7,7 mm
Air gap height		4 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	94 Hz
D.C. Voice coil resistance, $R_e$	6,4 Ω
Mechanical Quality Factor, $Q_{ms}$	10,8
Electrical Quality Factor, $Q_{es}$	0,78
Total Quality Factor, $Q_{ts}$	0,73
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	2,7 l
Mechanical Compliance, $C_{ms}$	627 μm / N
Mechanical Resistance, $R_{ms}$	0,25 kg / s
Efficiency, $\eta_0$	0,28 %
Effective Surface Area, $S_d$	0,0055 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	3 mm
Displacement Volume, $V_d$	11 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	0,2 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	118,2 mm	4,65 in
Bolt circle diameter	108,2 mm	4,26 in
Baffle cutout diameter:		
- Front mount	92 mm	3,62 in
Depth	58 mm	2,28 in
Net weight	0,28 kg	0,62 lb
Shipping weight	0,45 kg	0,99 lb

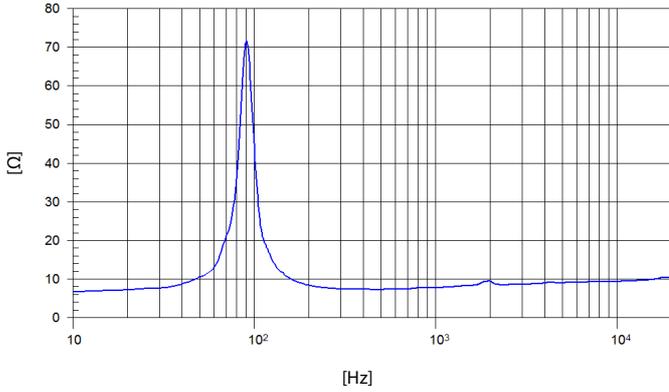
#### Notes:

\* 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.

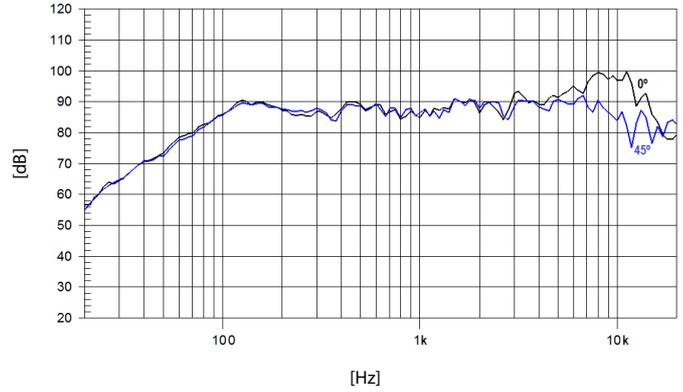
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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.

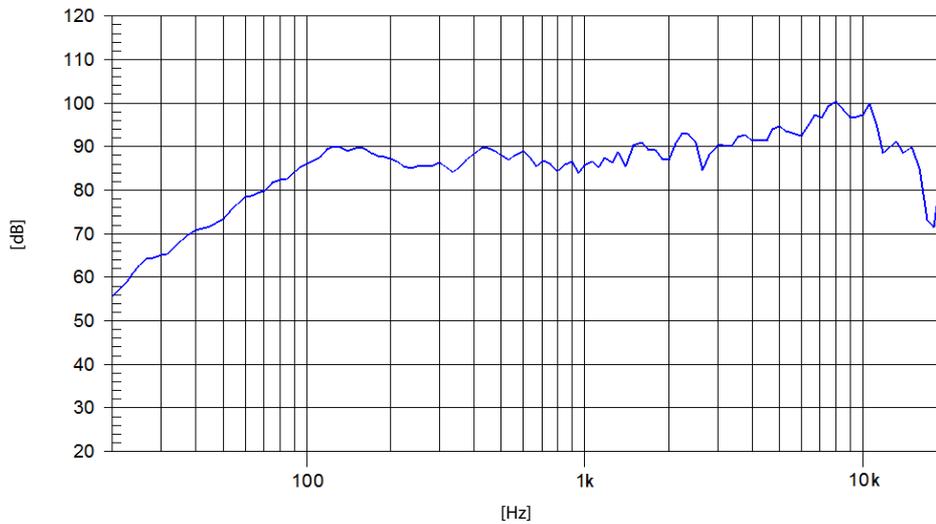
### FREE AIR IMPEDANCE CURVE



### OFF-AXIS FREQUENCY RESPONSE



### FREQUENCY RESPONSE CURVE



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