

6**G**40Nd

LOW & MID FREQUENCY TRANSDUCER G40 Series

KEY FEATURES

- Power handling: 170 W_{AES}
- High sensitivity: 94 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Weatherproof treatment for both sides of the cone
- 2" aluminium voice coil
- Shorting cap for extended response and low distortion
- Excellent for line array mid bass applications





TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
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Rated impedance		8 Ω
Minimum impedance		7,9 Ω
Power capacity ¹		170 W _{AES}
Program power ²		340 W
Sensitivity	94 dB 1W /	1m @ Z _N
Frequency range	90 -	- 8.000 Hz
Recom. enclosure		V _b = 4 I
(Bass-reflex design)	F	= 110 Hz
Voice coil diameter	50,8 mm	2 in
BI factor		11,2 N/A
Moving mass		0,014 kg
Voice coil length		9 mm
Air gap height		7 mm
X _{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	85 Hz
D.C. Voice coil resistance, R _e	6 Ω
Mechanical Quality Factor, Q _{ms}	3,7
Electrical Quality Factor, Q _{es}	0,36
Total Quality Factor, Q _{ts}	0,33
Equivalent Air Volume to C _{ms} , V _{as}	71
Mechanical Compliance, C _{ms}	250 μm / N
Mechanical Resistance, R _{ms}	2 kg / s
Efficiency, η ₀	1,2 %
Effective Surface Area, S _d	0,014 m ²
Maximum Displacement, X _{max} ⁴	3 mm
Displacement Volume, V _d	14 cm ³
Voice Coil Inductance, L _e	0,2 mH

Notes:

¹ The power capaticty is determined according to AES2-1984 (r2003) standard.

² Program power is defined as power capacity + 3 dB.

⁴ 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.

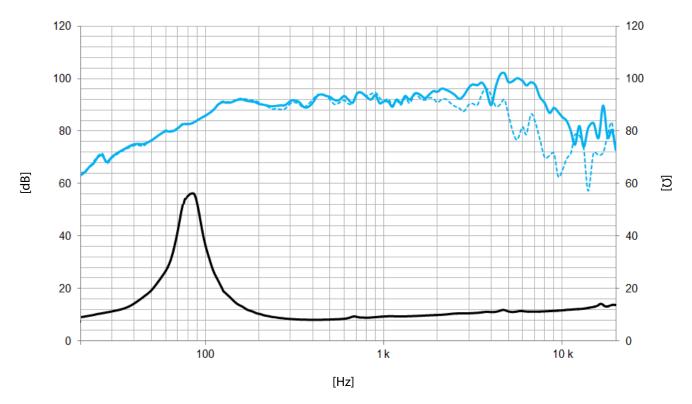
^a T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).



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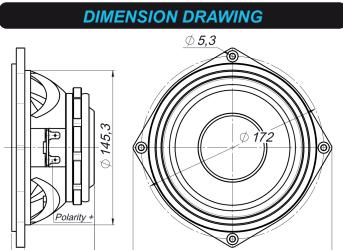


Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m $\,$

Frequency response on axis Frequency response 45° off axis

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Overall diameter	187,5 mm	7,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter:		
- Front mount	146 mm	5,7 in
Depth	77,8 mm	3,1 in
Net weight	1,6 kg	3,5 lb
Shipping weight	1,8 kg	4,0 lb



187,50

65,50

77,80