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PROFESSIONAL LOUDSPEAKERS

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6G40Nd-N

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
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 l
(Bass-reflex design)		F_b = 110 Hz
Voice coil diameter	50,8 mm	2 in
Bl factor		10,6 N/A
Moving mass		0,013 kg
Voice coil length		9 mm
Air gap height		7 mm
X_{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	100 Hz
D.C. Voice coil resistance, R_e	6 Ω
Mechanical Quality Factor, Q_{ms}	2,33
Electrical Quality Factor, Q_{es}	0,45
Total Quality Factor, Q_{ts}	0,38
Equivalent Air Volume to C_{ms}, V_{as}	3,7 l
Mechanical Compliance, C_{ms}	136 μm / N
Mechanical Resistance, R_{ms}	3,6 kg / s
Efficiency, η_0	1,1 %
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.

[3] 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).

[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.

MAXIMUM INTENSITY OF MAGNETIC FIELD OBSERVED IN A DISTANCE OF 2.1 IS LOWER THAN 0.159 A/M (0.002 gauss), THUS IT IS NOT NECESSARY TO IMPOSE THE RESTRICTION OF MAGNETIZED MATERIAL, SO GOODS ARE OPTIMIZED FOR AIR SHIPMENT WITHOUT ANY RESTRICTION OF DANGEROUS MERCHANDISE

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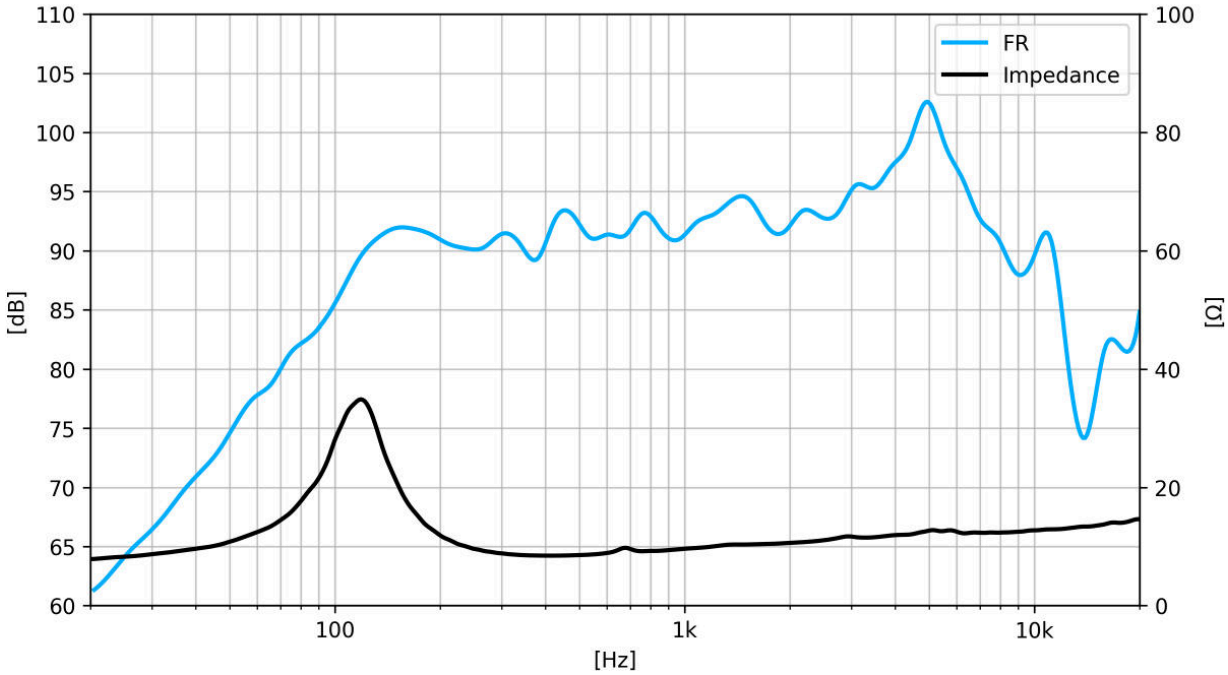
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

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

DIMENSION DRAWING

