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PROFESSIONAL LOUDSPEAKERS

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5MP60/N

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

- 100 W program power
- Sensitivity: 88 dB (1W / 1m)
- Smooth, flat and wide frequency response
- Copper shorting-cup for reduced harmonic distortion
- Extended controlled displacement: X_{max} ± 5,5 mm
- 20 mm peak-to-peak excursion before damage
- Especially well suited for small bass-reflex cabinets for high quality monitor applications





TECHNICAL SPECIFICATIONS

Nominal diameter	125 mm	5 in
Rated impedance		8 Ω
Minimum impedance		5,5 Ω
Power capacity [1]		50 W_{RMS}
Program power [2]		100 W
Sensitivity	88 dB	1W / 1m @ Z_N
Frequency range		65 - 12.000 Hz
Recom. enclosure		V_b = 8 l
		F_b = 54 Hz
(Bass-reflex design)		
Voice coil diameter	25,4 mm	1 in
Bl factor		6,4 N/A
Moving mass		0,011 kg
Voice coil length		14 mm
Air gap height		6 mm
X_{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	63 Hz
D.C. Voice coil resistance, R_e	5,3 Ω
Mechanical Quality Factor, Q_{ms}	2,3
Electrical Quality Factor, Q_{es}	0,58
Total Quality Factor, Q_{ts}	0,46
Equivalent Air Volume to C_{ms}, V_{as}	5,8 l
Mechanical Compliance, C_{ms}	564 µm / N
Mechanical Resistance, R_{ms}	2 kg / s
Efficiency, η_0	0,25 %
Effective Surface Area, S_d	0,0085 m^2
Maximum Displacement, X_{max} [4]	5,5 mm
Displacement Volume, V_d	46 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.

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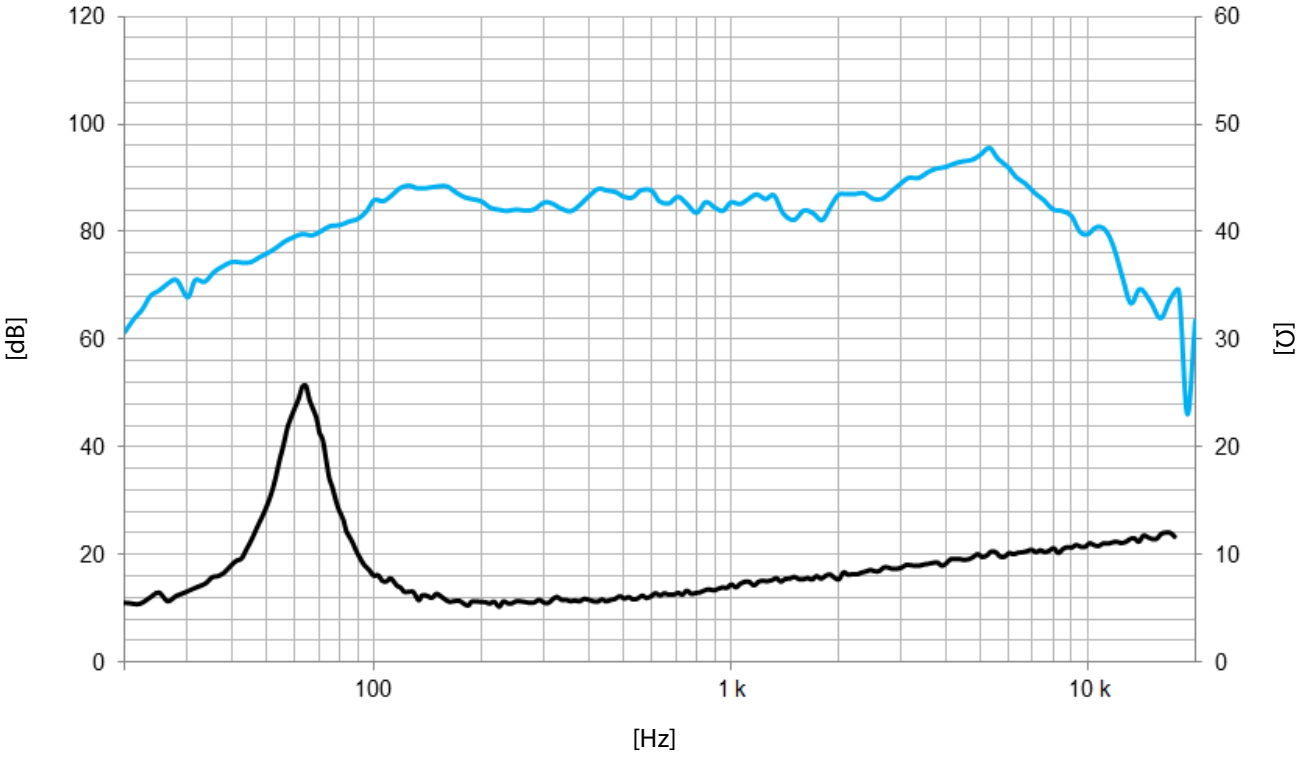
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	150 mm	5,9 in
Bolt circle diameter	137 mm	5,4 in
Baffle cutout diameter:		
- Front mount	120 mm	4,7 in
Depth	68 mm	2,7 in
Net weight	1,2 kg	2,6 lb
Shipping weight	1,3 kg	2,8 lb

DIMENSION DRAWING

