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8LW30
LOW FREQUENCY TRANSDUCER
LW Series

KEY FEATURES

- Power handling: 500 W program power
- Sensitivity: 95 dB (1W / 1m)
- 2,5" aluminum voice coil with fiber glass former
- Neodymium magnet

- Waterproof cone with treatment for both sides
- Extended controlled displacement: X_{max} ± 6,5 mm
- 23 mm peak-to-peak excursion before damage
- Designed for extremely compact woofer applications

TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		6,9 Ω
Power capacity [1]		250 W_{AES}
Program power [2]		500 W
Sensitivity	95 dB	1W / 1m @ Z_N
Frequency range		70 - 6.000 Hz
Recom. enclosure vol.	10 / 30 l	0,35 / 1,1 ft³
Voice coil diameter	62,4 mm	2,5 in
Bl factor		12 N/A
Moving mass		0,022 kg
Voice coil length		16 mm
Air gap height		7 mm
X_{damage} (peak to peak)		23 mm

THIELE-SMALL PARAMETERS [3]

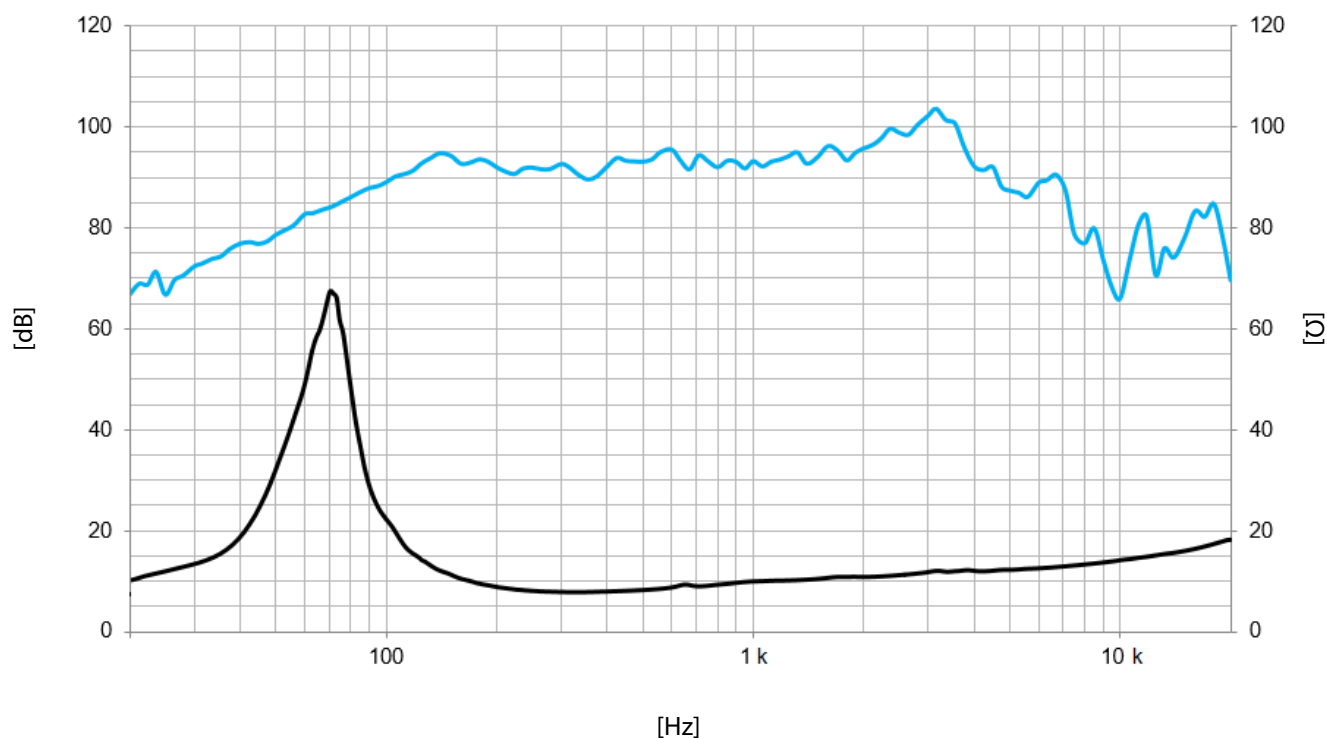|	
Resonant frequency, f_s	70 Hz
D.C. Voice coil resistance, R_e	5,8 Ω
Mechanical Quality Factor, Q_{ms}	7,0
Electrical Quality Factor, Q_{es}	0,39
Total Quality Factor, Q_{ts}	0,37
Equivalent Air Volume to C_{ms}, V_{as}	16 l
Mechanical Compliance, C_{ms}	232 μm / N
Mechanical Resistance, R_{ms}	1,4 kg / s
Efficiency, η_0	1,4 %
Effective Surface Area, S_d	0,022 m²
Maximum Displacement, X_{max} [4]	6,5 mm
Displacement Volume, V_d	143 cm³
Voice Coil Inductance, L_e	1,1 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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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	212 mm	8,3 in
Bolt circle diameter	198 mm	7,8 in
Baffle cutout diameter:		
- Front mount	181 mm	7,1 in
Depth	92 mm	3,6 in
Volume displaced by driver	1,5 l	0,06 ft³
Net weight	2,3 kg	5,1 lb
Shipping weight	2,5 kg	5,5 lb

DIMENSION DRAWING

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