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PROFESSIONAL LOUDSPEAKERS

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PRO-12MC 4Ω

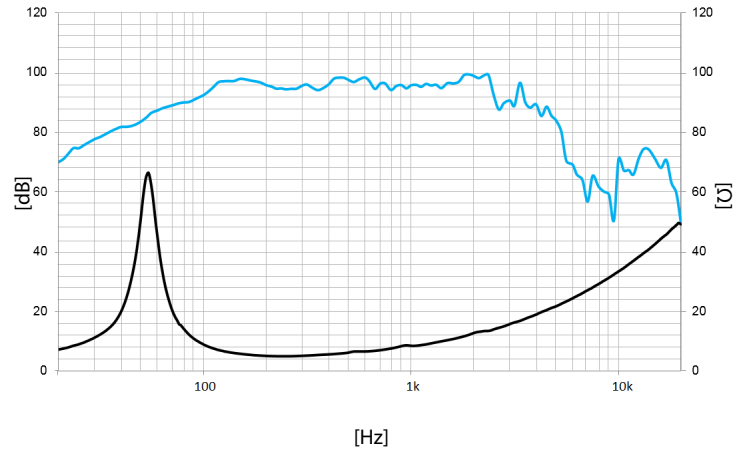
CUSTOM TRANSDUCER

TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		4 Ω
Minimum impedance		4,9 Ω
Power capacity [1]		500 W_{AES}
Program power [2]		1000 W
Sensitivity	97 dB	1W / 1m @ Z_N
Frequency range		65 - 5.000 Hz
Voice coil diameter	63,5 mm	2,5 in
Bl factor		15,8 N/A
Moving mass		0,065 kg
Voice coil length		19,5 mm
Air gap height		10 mm
X_{damage} (peak to peak)		40 mm

THIELE-SMALL PARAMETERS [3]

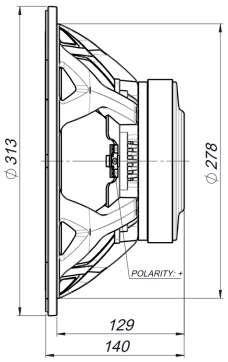
Resonant frequency, f_s	55 Hz
D.C. Voice coil resistance, R_e	3,6 Ω
Mechanical Quality Factor, Q_{ms}	6,7
Electrical Quality Factor, Q_{es}	0,33
Total Quality Factor, Q_{ts}	0,31
Equivalent Air Volume to C_{ms}, V_{as}	54 l
Mechanical Compliance, C_{ms}	127 μm / N
Mechanical Resistance, R_{ms}	3,4 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S_d	0,055 m^2
Maximum Displacement, X_{max} [4]	7,6 mm
Displacement Volume, V_d	418 cm^3
Voice Coil Inductance, L_e	0,7 mH

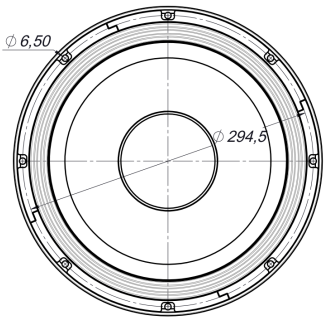


Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	140 mm	5,5 in
Net weight	5,8 kg	12,8 lb
Shipping weight	6,5 kg	14,3 lb





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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