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PROFESSIONAL LOUDSPEAKERS

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PRO8MV2/Nd 4Ω

Custom 8” Transducer

TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		4 Ω
Minimum impedance		4,3 Ω
Power capacity [1]		150 W_{AES}
Program power [2]		300 W
Sensitivity	96 dB	1W / 1m @ Z_N
Frequency range		120 - 8.000 Hz
Voice coil diameter	38,1 mm	1,5 in
Bl factor		9,1 N/A
Moving mass		0,018 kg
Voice coil length		7,5 mm
Air gap height		6 mm

THIELE-SMALL PARAMETERS [3]

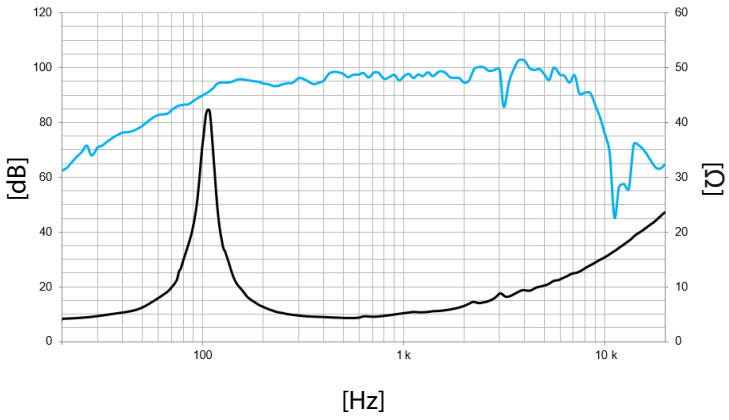
Resonant frequency, f_s	105 Hz
D.C. Voice coil resistance, R_e	3,3 Ω
Mechanical Quality Factor, Q_{ms}	5,4
Electrical Quality Factor, Q_{es}	0,46
Total Quality Factor, Q_{ts}	0,43
Equivalent Air Volume to C_{ms}, V_{as}	9 l
Mechanical Compliance, C_{ms}	130 µm / N
Mechanical Resistance, R_{ms}	2,1 kg / s
Efficiency, η_0	2,1 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} [4]	2,5 mm
Displacement Volume, V_d	55 cm^3
Voice Coil Inductance, L_e	0,3 mH

MATERIALS

Voice coil winding	Copper
Voice coil former	Glass fiber
Spider	Polycotton
Magnet	Neodymium
Cone	Paper
Frame	Steel

MOUNTING INFORMATION

Overall diameter	210 mm	8,3 in
Bolt circle diameter	192 mm	7,6 in
Baffle cutout diameter:		
- Front mount	180 mm	7,1 in
Depth	75 mm	2,9 in
Net weight	1,3 kg	2,9 lb
Shipping weight	1,5 kg	3,3 lb



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

Notes:

This datasheet is done with the measurement of a laboratory prototype. Small differences may appear when thw driver is transferred to the production line and manufactured in big quantities.

[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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