beyma

PROFESSIONAL LOUDSPEAKERS

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18P1200Nd/N

LOW FREQUENCY TRANSDUCER

P1200Nd Series

KEY FEATURES

- High power handling: 1.200 W_{AES}
- High sensitivity: 98 dB (1W / 1m)
- Forced air convection circuit for low power compression
- FEA optimized neodymium magnetic circuit
- Aluminium demodulating ring
- 4” DUO technology copper voice coil
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Waterproof treatment for both sides of the cone
- Conex spider
- Extended controlled displacement: X_{max} ± 9,5 mm
- 52 mm peak-to-peak excursion before damage

TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6 Ω
Power capacity [1]		1.200 W_{AES}
Program power [2]		2.400 W
Sensitivity	98 dB	1W / 1m @ Z_N
Frequency range		40 - 2.000 Hz
Recom. enclosure vol.	80 / 200 l	2,8 / 7 ft^3
Voice coil diameter	101,6 mm	4 in
Bl factor		26,3 N/A
Moving mass		0,199 kg
Voice coil length		25 mm
Air gap height		14 mm
X_{damage} (peak to peak)		52 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	37 Hz
D.C. Voice coil resistance, R_e	5,3 Ω
Mechanical Quality Factor, Q_{ms}	10,4
Electrical Quality Factor, Q_{es}	0,35
Total Quality Factor, Q_{ts}	0,34
Equivalent Air Volume to C_{ms}, V_{as}	198 l
Mechanical Compliance, C_{ms}	93 µm / N
Mechanical Resistance, R_{ms}	4,5 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S_d	0,1255 m^2
Maximum Displacement, X_{max} [4]	9,5 mm
Displacement Volume, V_d	1664 cm^3
Voice Coil Inductance, L_e	2,3 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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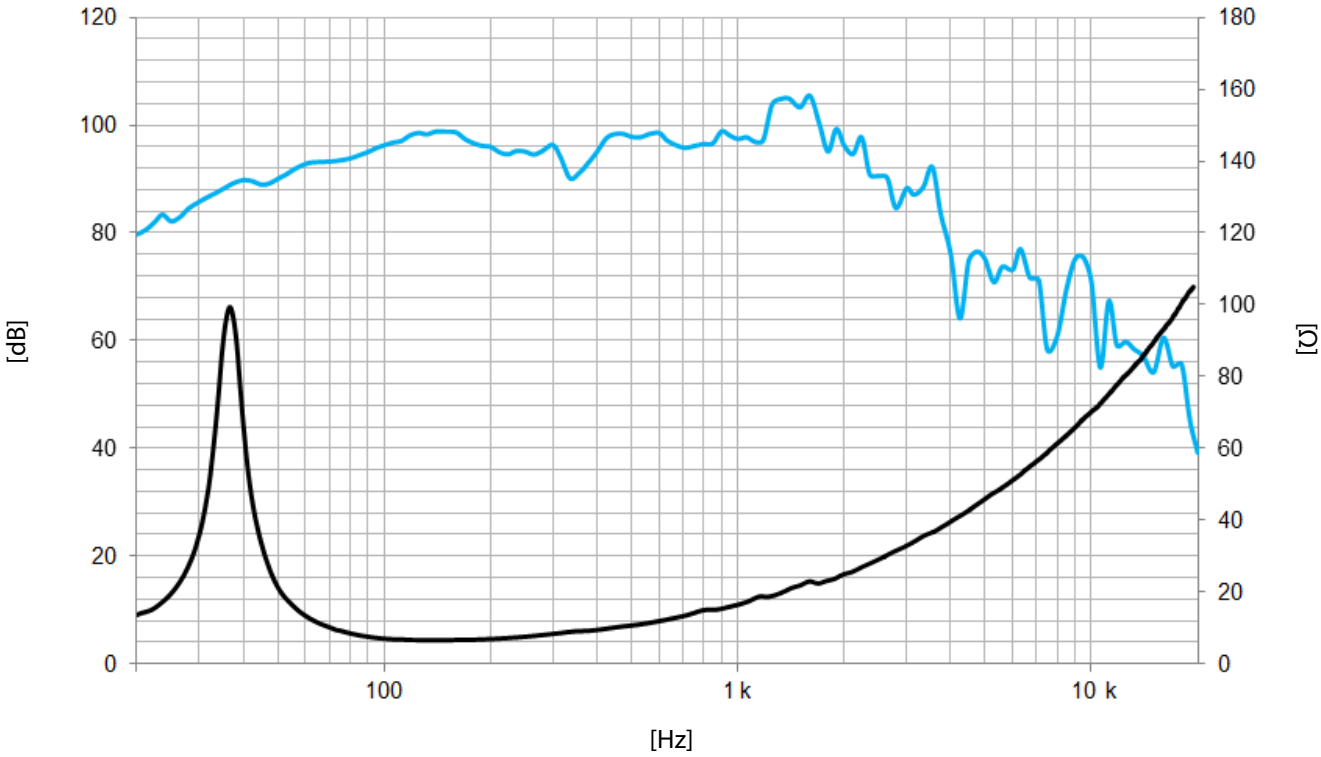

Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	462 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,3 in
Depth	205 mm	8,1 in
Net weight	8,5 kg	18,7 lb
Shipping weight	10 kg	22,0 lb

DIMENSION DRAWING