beyma

PROFESSIONAL LOUDSPEAKERS

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15P1000Fe V2

LOW FREQUENCY TRANSDUCER

P1000 Series

KEY FEATURES

- High power handling: 2.000 W program power
- 4” copper voice coil
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized magnetic circuit
- Low power compression losses
- Weatherproof cone treatment for both sides of the cone
- CONEX spider
- 52 mm peak-to-peak excursion before damage
- High excursion capabilities: X_{max} ± 8 mm
- Low frequency extension and high control





TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		6,8 Ω
Power capacity [1]		1.000 W_{AES}
Program power [2]		2.000 W
Sensitivity	98 dB	1W / 1m @ Z_N
Frequency range		45 - 2.000 Hz
Recom. enclosure vol.	30 / 120 l	1,06 / 4,24 ft^3
Voice coil diameter	101,6 mm	4 in
Bl factor		27,4 N/A
Moving mass		0,157 kg
Voice coil length		20 mm
Air gap height		12 mm
X_{damage} (peak to peak)		52 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	45 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	5,9
Electrical Quality Factor, Q_{es}	0,31
Total Quality Factor, Q_{ts}	0,30
Equivalent Air Volume to C_{ms}, V_{as}	80,7 l
Mechanical Compliance, C_{ms}	78 µm / N
Mechanical Resistance, R_{ms}	7,6 kg / s
Efficiency, η_0	2,4 %
Effective Surface Area, S_d	0,0855 m^2
Maximum Displacement, X_{max} [4]	8 mm
Displacement Volume, V_d	684 cm^3
Voice Coil Inductance, L_e	1,5 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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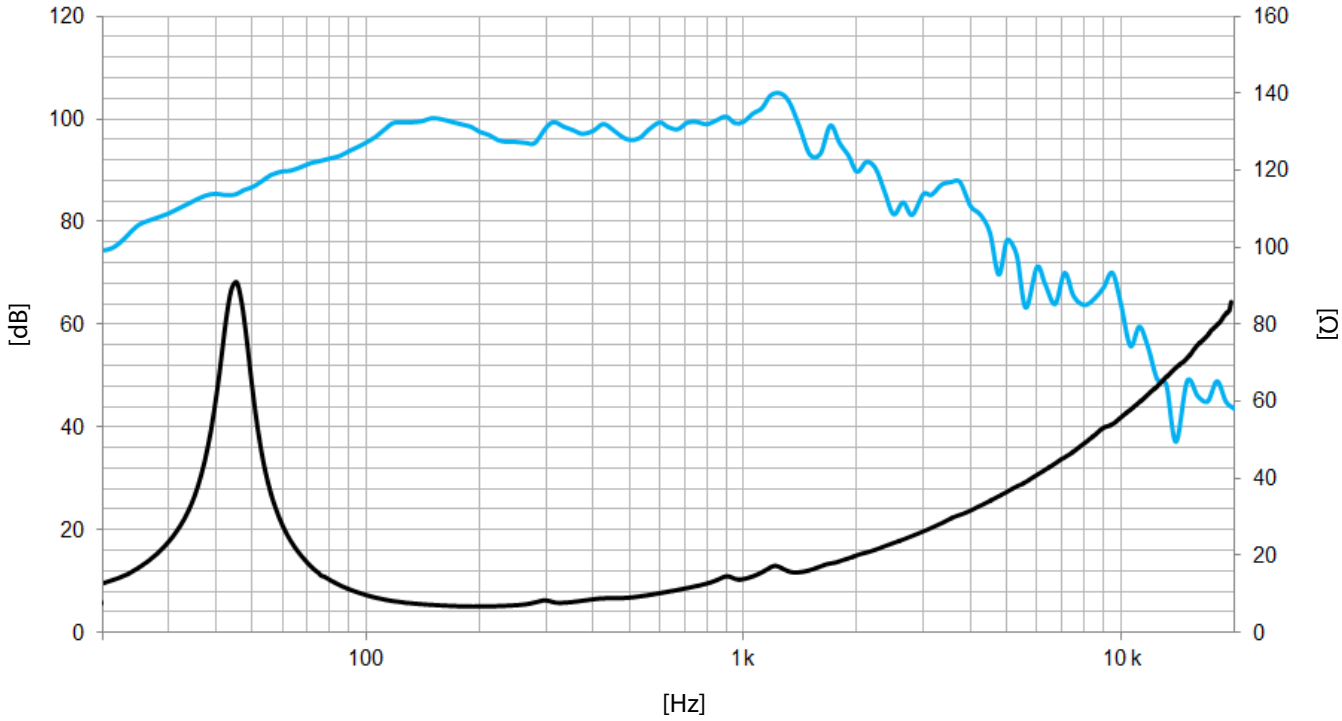
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	388 mm	15,3 in
Bolt circle diameter	370 mm	14,6 in
Baffle cutout diameter:		
- Front mount	352 mm	13,9 in
Depth	175 mm	6,9 in
Net weight	13,1 kg	28,9 lb
Shipping weight	14,1 kg	31,1 lb

DIMENSION DRAWING

