beyma

PROFESSIONAL LOUDSPEAKERS
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12SCF1300Nd 4Ω

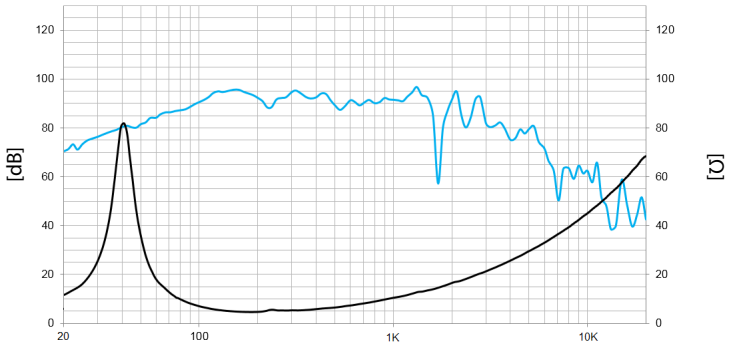
CUSTOM TRANSDUCER

TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		4 Ω
Minimum impedance		4,6 Ω
Power capacity [1]		1.300 W_{AES}
Program power [2]		2.600 W
Sensitivity	94 dB	1W / 1m @ Z_N
Frequency range		45 - 1.600 Hz
Voice coil diameter	101.6 mm	4 in
Bl factor		23.0 N/A
Moving mass		0,139 kg
Voice coil length		30 mm
Air gap height		15 mm
X_{damage} (peak to peak)		56 mm

THIELE-SMALL PARAMETERS [3]

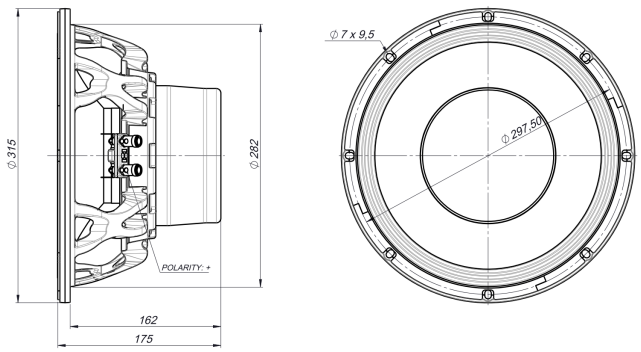
Resonant frequency, f_s	43 Hz
D.C. Voice coil resistance, R_e	3,4 Ω
Mechanical Quality Factor, Q_{ms}	8,2
Electrical Quality Factor, Q_{es}	0,24
Total Quality Factor, Q_{ts}	0,24
Equivalent Air Volume to C_{ms}, V_{as}	41,4 l
Mechanical Compliance, C_{ms}	97 μm / N
Mechanical Resistance, R_{ms}	4,6 kg / s
Efficiency, η_0	1,3 %
Effective Surface Area, S_d	0,055 m^2
Maximum Displacement, X_{max} [4]	12 mm
Displacement Volume, V_d	648 cm^3
Voice Coil Inductance, L_e	1 mH



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

MOUNTING INFORMATION

Overall diameter	315 mm	12,4 in
Bolt circle diameter	297,5 mm	11,7 in
Baffle cutout diameter:		
- Front mount	282 mm	11,1 in
Depth	175 mm	6,9 in
Net weight	8,3 kg	18,3 lb
Shipping weight	9 kg	19,8 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.

Acústica Beyma SL - P.I. Moncada II, C/ Pont Sec, 1C - 46113 Moncada, Valencia (Spain) - Tel. +34 96 130 13 75 - beyma@beyma.com

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