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PROFESSIONAL LOUDSPEAKERS
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3FR30V2

FULL RANGE FREQUENCY TRANSDUCER

KEY FEATURES

- 3” full-range compact ferrite loudspeaker
- 60 W program power
- FEA optimized magnetic circuit
- Shorting cup for extended response and very low distortion
- Optimized surround design for minimal resonance behaviour
- Optimized linearity and dispersion pattern
- Weatherproof paper cone and extreme resistance elastomer surround
- Pressed Steel Frame
- Ideal for beam-steering application, portable array, columns and compact applications





TECHNICAL SPECIFICATIONS

Nominal diameter	77 mm	3 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity [1]		30 W_{AES}
Program power [2]		60 W
Sensitivity	90,5 dB	1W / 1m @ Z_N
Frequency range		135 - 20.000 Hz
Voice coil diameter	20,3 mm	0,8 in
Bl factor		4,5 N/A
Moving mass		0,0023 kg
Voice coil length		6 mm
Air gap height		5 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	133 Hz
D.C. Voice coil resistance, R_e	5,8 Ω
Mechanical Quality Factor, Q_{ms}	5,9
Electrical Quality Factor, Q_{es}	0,56
Total Quality Factor, Q_{ts}	0,51
Equivalent Air Volume to C_{ms}, V_{as}	1,0 l
Mechanical Compliance, C_{ms}	624 μm / N
Mechanical Resistance, R_{ms}	0,32 kg / s
Efficiency, η_0	0,4 %
Effective Surface Area, S_d	0,003 m^2
Maximum Displacement, X_{max} [4]	2 mm
Displacement Volume, V_d	5 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,16 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.

[5] Product designed by Acústica Beyma S.L.

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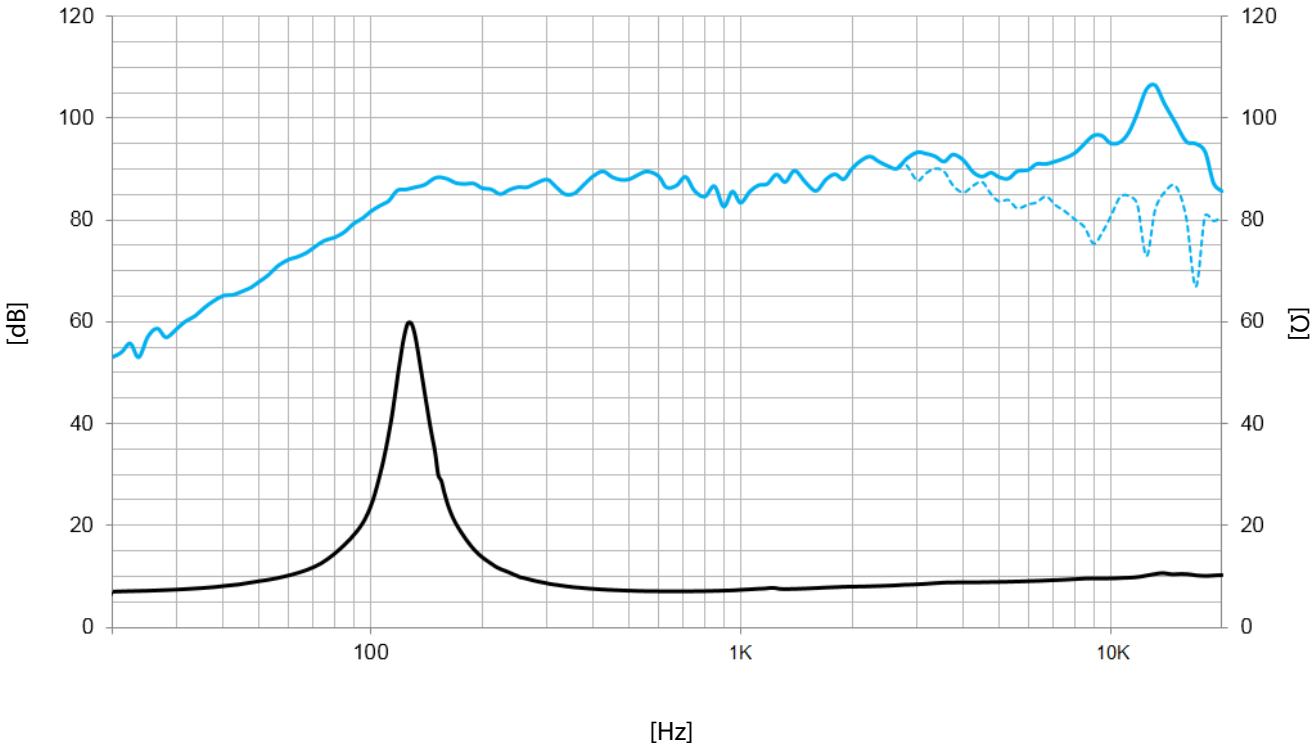
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

MOUNTING INFORMATION

Overall diameter	93,5 mm	3,7 in
Bolt circle diameter	85 mm	3,4 in
Baffle cutout diameter:		
- Front mount	75 mm	3,9 in
Depth	52 mm	2 in
Net weight	0,57 kg	1,2 lb
Shipping weight	0,70 kg	1,5 lb

DIMENSION DRAWING