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PROFESSIONAL LOUDSPEAKERS
www.beyma.com

14MC700Nd

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

maltcross TECHNOLOGY

- High power handling: 1.400 W program power
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 99 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Optimized non-linear behaviour
- 3" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Weatherproof cone with treatment for both sides
- Extended controlled displacement: Xmax ± 7 mm
- 48 mm peak-to-peak excursion before damage
- Weight 4 kg
- Optimized for bass or mid-bass high performance audio systems





TECHNICAL SPECIFICATIONS

Nominal diameter	350 mm	14 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity [1]		700 W_{AES}
Program power [2]		1.400 W
Sensitivity	99 dB	1W / 1m @ Z_N
Frequency range		55 - 4.000 Hz
Recom. enclosure		V_b = 55 l
(Bass-reflex design)		F_b = 60 Hz
Voice coil diameter	76,2 mm	3 in
Bl factor		22 N/A
Moving mass		0,086 kg
Voice coil length		18 mm
Air gap height		10 mm
X_{damage} (peak to peak)		48 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	51 Hz
D.C. Voice coil resistance, R_e	5,3 Ω
Mechanical Quality Factor, Q_{ms}	3,3
Electrical Quality Factor, Q_{es}	0,30
Total Quality Factor, Q_{ts}	0,28
Equivalent Air Volume to C_{ms}, V_{as}	78 l
Mechanical Compliance, C_{ms}	110 μm / N
Mechanical Resistance, R_{ms}	8,3 kg / s
Efficiency, η_0	3,3 %
Effective Surface Area, S_d	0,070 m^2
Maximum Displacement, X_{max} [4]	7 mm
Displacement Volume, V_d	490 cm^3
Voice Coil Inductance, L_e	1 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.

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

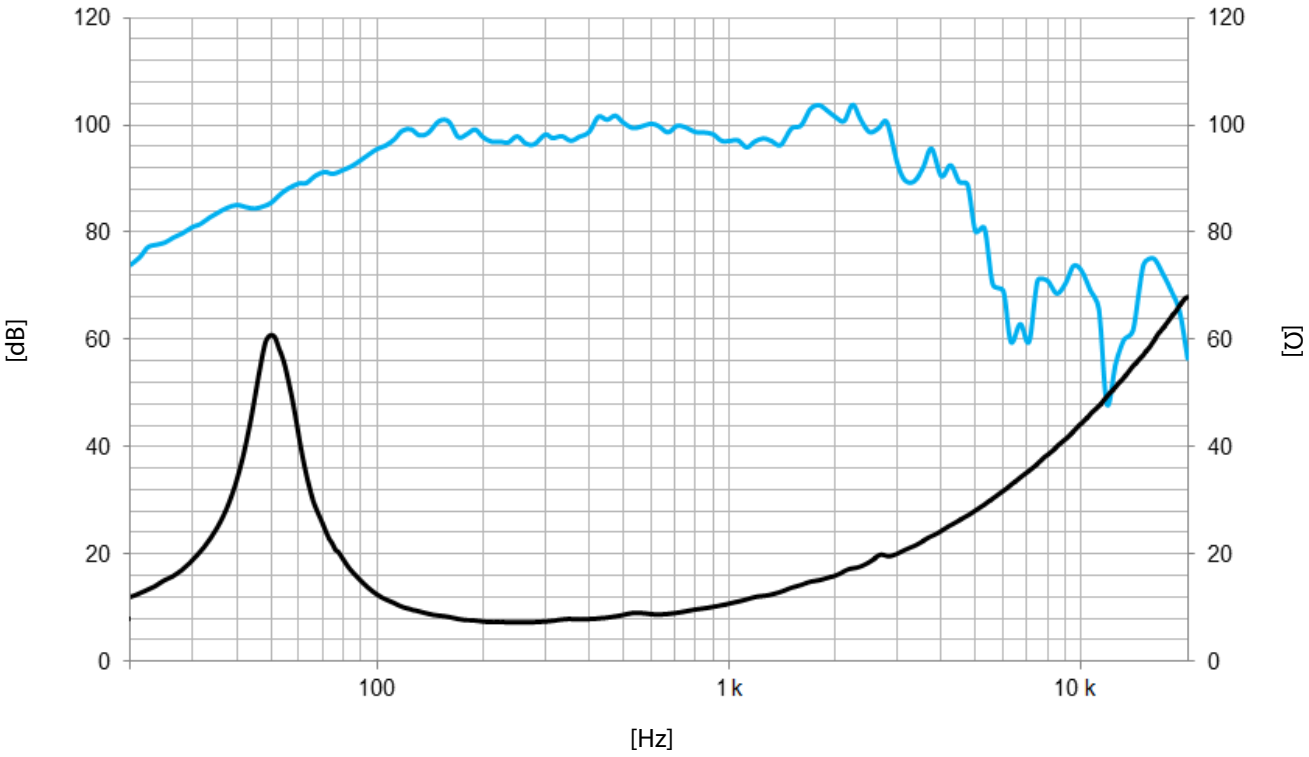
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	359 mm	14,1 in
Bolt circle diameter	342 mm	13,5 in
Baffle cutout diameter:		
- Front mount	323 mm	12,7 in
Depth	166 mm	6,5 in
Volume displaced by driver	3,0 l	0,11 ft³
Net weight	4,0 kg	8,8 lb
Shipping weight	5,0 kg	11,0 lb

DIMENSION DRAWING

