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PROFESSIONAL LOUDSPEAKERS
www.beyma.com

15MLEX1000Nd

LOW & MID FREQUENCY TRANSDUCER

Preliminary Data Sheet

KEY FEATURES

maltcross TECHNOLOGY

- High power handling and low distortion 15” woofer/ mid-bass
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 100 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Ultra low air noise
- Optimized linear behaviour
- Weatherproof cone with reatment for borth sides
- Conex spider
- 4” DUO double layer in/out CCAW voice coil
- Aluminium demodulating ring
- Extended controlled displacement: Xmax ± 11 mm
- 60 mm peak-to-peak excursion before damage
- Optimized for high performance bass or mid-bass applications





TECHNICAL SPECIFICATIONS

Nominal diameter	380mm	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	100dB	1W / 1m @ Z_N
Frequency range		40- 3000 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		26 N/A
Moving mass		111 g
Voice coil length		28 mm
Air gap height		14 mm
X_{damage} (peak to peak)		60 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	38 Hz
D.C. Voice coil resistance, R_e	5,3 Ω
Mechanical Quality Factor, Q_{ms}	7,2
Electrical Quality Factor, Q_{es}	0,21
Total Quality Factor, Q_{ts}	0,21
Equivalent Air Volume to C_{ms}, V_{as}	167 l
Mechanical Compliance, C_{ms}	0,152 mm/N
Mechanical Resistance, R_{ms}	3,73 kg/s
Efficiency, η_0	4,4 %
Effective Surface Area, S_d	880 cm^2
Maximum Displacement, X_{max} [4]	11 mm
Displacement Volume, V_d	0,97 l
Voice Coil Inductance, L_e	1,30 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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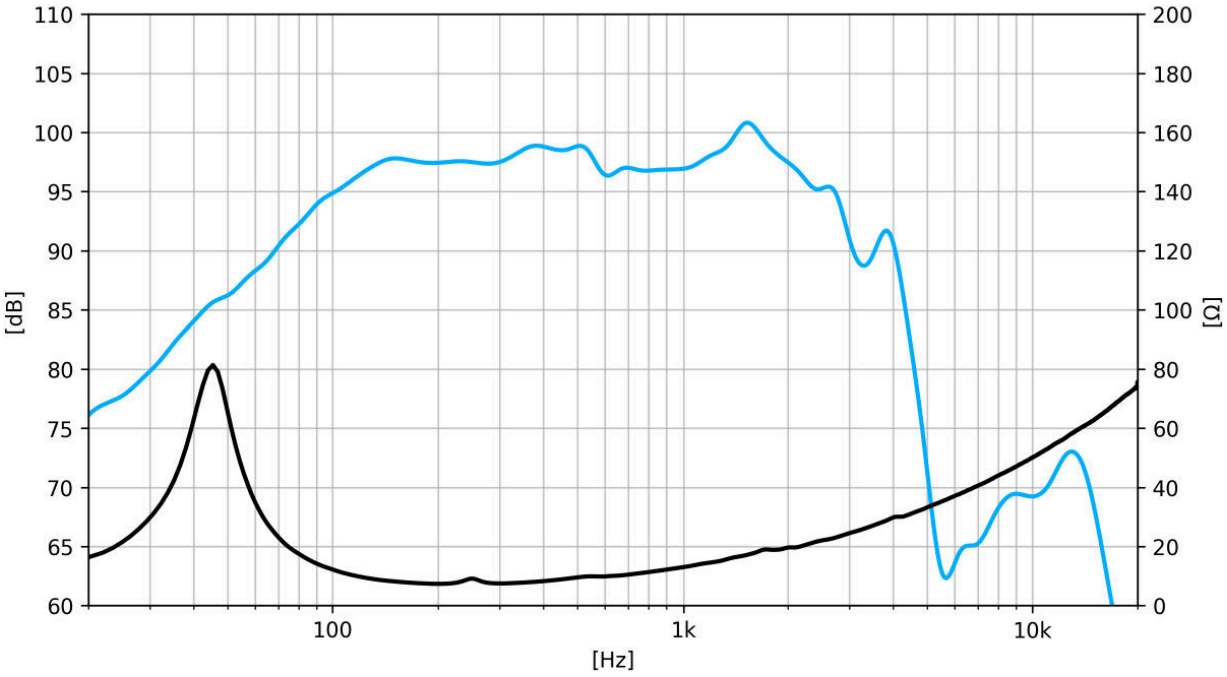
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	393 mm	15,5 in
Bolt circle diameter	373 mm	14,7 in
Baffle cutout diameter:		
- Front mount	352 mm	13,9 in
Depth	189 mm	7,4 in
Net weight	9,4 kg	20,7 lb
Shipping weight	9,6 kg	21,2 lb

DIMENSION DRAWING

