beyma ""

15LX60V2
LOW FREQUENCY TRANSDUCER
LX60 Series

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized magnetic circuit
- CONEX spider for higher resistance and consistency

- Weatherproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: $X_{max} \pm 9$ mm
- 47 mm peak-to-peak excursion before damage

TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity [1]		700 W_{AES}
Program power [2]		1.400 W
Sensitivity	98 dB	1W / 1m @ Z_N
Frequency range		30 - 1.500 Hz
Recom. enclosure		V_b = 125 l
(Bass-reflex design)		F_b = 43 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		21,1 N/A
Moving mass		0,147 kg
Voice coil length		20 mm
Air gap height		10 mm
X_{damage} (peak to peak)		47 mm

THIELE-SMALL PARAMETERS [3]

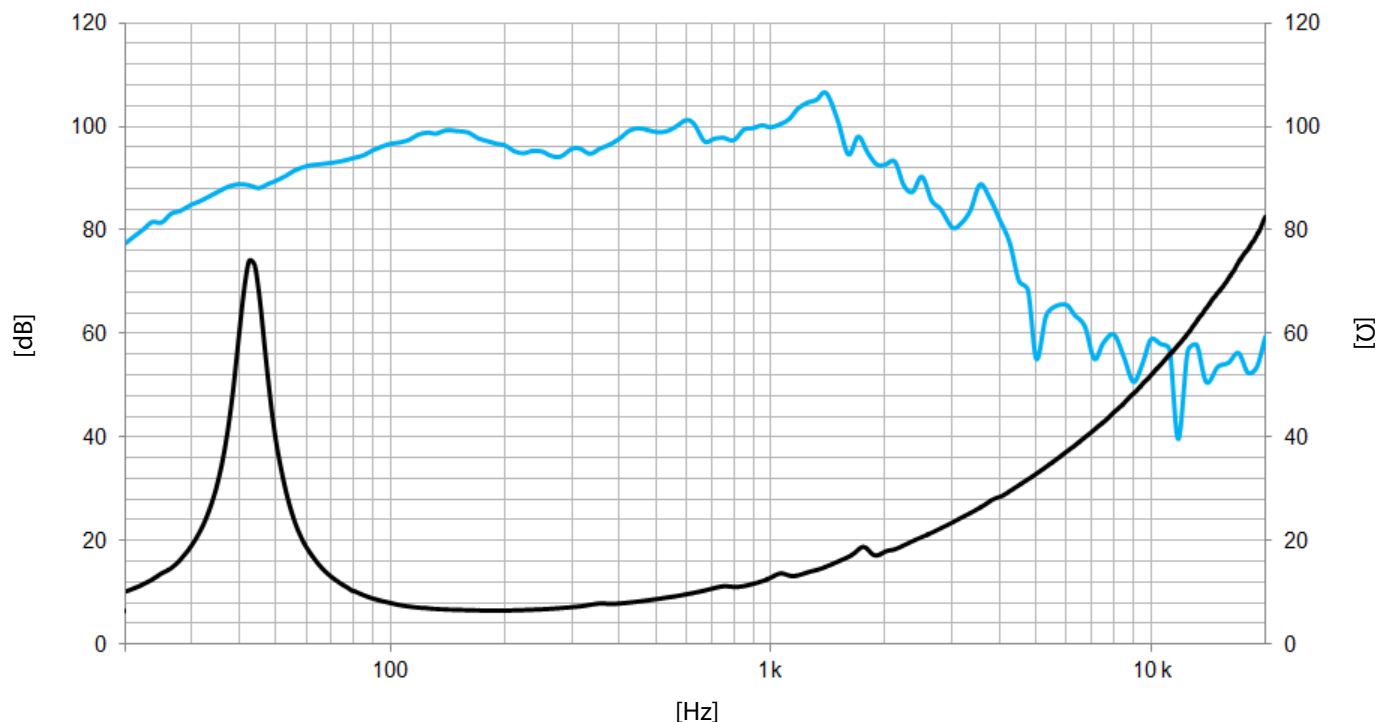|	
Resonant frequency, f_s	42 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	21,2
Electrical Quality Factor, Q_{es}	0,45
Total Quality Factor, Q_{ts}	0,44
Equivalent Air Volume to C_{ms}, V_{as}	105 l
Mechanical Compliance, C_{ms}	92 μm / N
Mechanical Resistance, R_{ms}	1,9 kg / s
Efficiency, η_0	1,67 %
Effective Surface Area, S_d	0,091 m^2
Maximum Displacement, X_{max} [4]	9 mm
Displacement Volume, V_d	812 cm^3
Voice Coil Inductance, L_e @ 1 kHz	2,1 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.

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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	349,5 mm	13,7 in
Depth	142 mm	5,6 in
Net weight	10,2 kg	21,4 lb
Shipping weight	11,3 kg	22,4 lb

DIMENSION DRAWING

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