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PROFESSIONAL LOUDSPEAKERS
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15LX60V2

LOW FREQUENCY TRANSDUCER
LX60 Series

KEY FEATURES

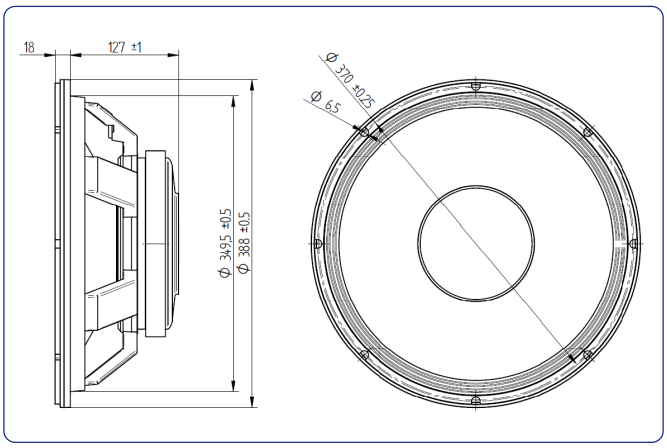
- High power handling: 700 W_{AES}
- High sensitivity: 98 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion.
- CONEX spider for higher resistance and consistency.
- Waterproof treatment for both sides of the cone.
- 4" DUO double layer inner/outer voice coil.
- Extended controlled displacement: X_{max} ± 9 mm
- Massive mechanical displacement capability: X_{damage} ± 47 mm



TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity*		700 W_{AES}
Program power		1400 W
Sensitivity	98 dB	1W @ 1m @ 2π
Frequency range		30 - 1.500 Hz
Recom. enclosure vol.	60 / 150 l	2,24 / 6 ft^3
Voice coil diameter	100 mm	4 in
Magnetic assembly weight	9 kg	19,84 lb
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

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	42 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	21,23
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}	92,4 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} * **	9 mm
Displacement Volume, V_d	812 cm^3
Voice Coil Inductance, L_e @ 1 kHz	2,1 mH

MOUNTING INFORMATION

Overall diameter	388 mm	15,28 in
Bolt circle diameter	370 mm	14,57 in
Baffle cutout diameter:		
- Front mount	352 mm	13,86 in
- Rear mount	355 mm	13,98 in
Depth	145 mm	5,70 in
Volume displaced by driver	7 l	0,14 ft^3
Net weight	10,2 kg	21,4 lb
Shipping weight	11,3 kg	22,9 lb

Notes:

* The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** 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).

*** 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.

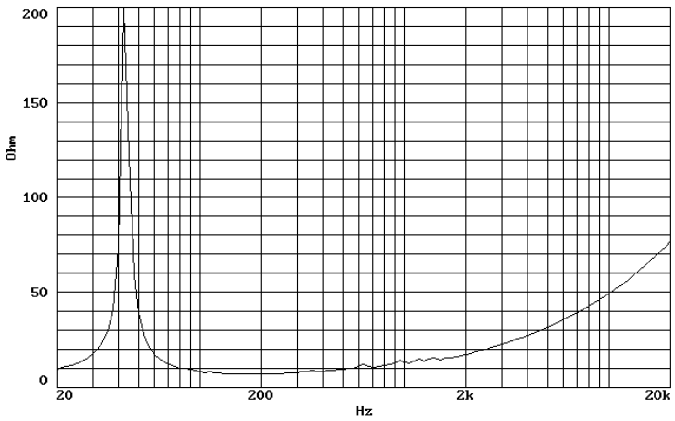
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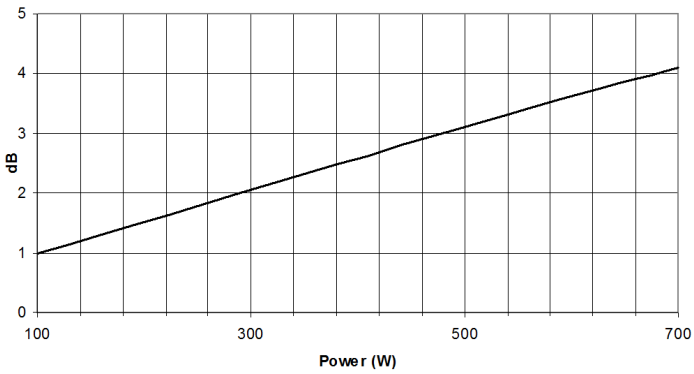
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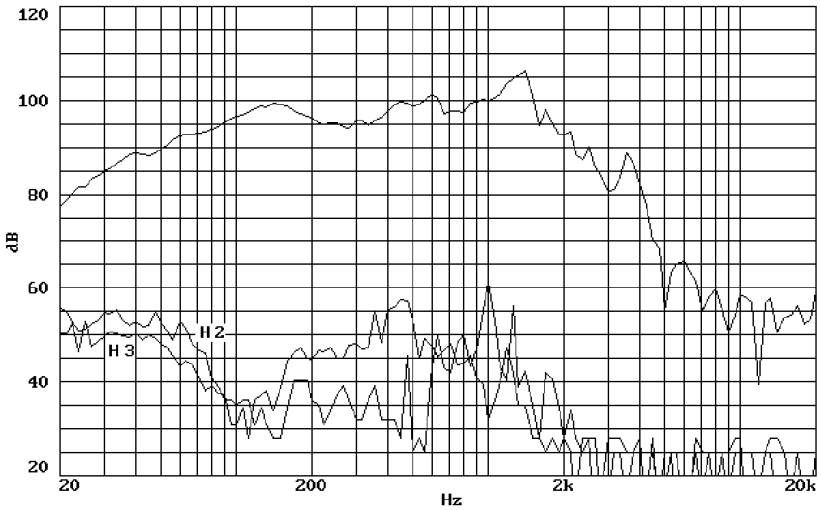
FREE AIR IMPEDANCE CURVE



POWER COMPRESSION LOSSES



FREQUENCY RESPONSE AND DISTORTION



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

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