

18SW1600Nd

LOW FREQUENCY TRANSDUCER SW Series

KEY FEATURES



- HELICEX ® cooling technology
- 1.600 W_{AES} power handling capacity
- High sensitivity: 97 dB (1W / 1m)
- Low resonant frequency: 32 Hz
- Extended controlled displacement: X_{max} ± 10 mm
- Massive mechanical displacement capability: X_{DD} 60 mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology for high control, symmetry and linearity
- 5" DUO double inner/outer voice coil winding
- CONEX spider with Die Cast Aluminum Ring



TECHNICAL SPECIFICATIONS

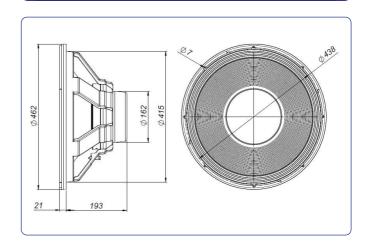
460 mi	m 18 in
	8 Ω
	6,1 Ω
1	.600 W _{AES}
	3.200 W
97 dB 1W	/ 1m @ Z _N
25	- 1.800 Hz
80 / 200 I	2,8 / 7 ft ³
127 mi	m 5 in
	29 N/A
	0,260 kg
	25 mm
	14 mm
	60 mm
	97 dB 1W 25

THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	32 Hz
D.C. Voice coil resistance, R _e	5,5 Ω
Mechanical Quality Factor, Q _{ms}	11,74
Electrical Quality Factor, Q _{es}	0,34
Total Quality Factor, Qts	0,33
Equivalent Air Volume to C _{ms} , V _{as}	205,7
Mechanical Compliance, C _{ms}	94,3 μm / N
Mechanical Resistance, R _{ms}	4,46 kg / s
Efficiency, η ₀	1,93 %
Effective Surface Area, S _d	0,1255 m ²
Maximum Displacement, X _{max} ***	10 mm
Displacement Volume, V _d	1164 cm ³
Voice Coil Inductance, L _e @ 1 kHz	3,1 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	462 mm	18,19 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,34 in
Depth	214 mm	8,43 in
Net weight	11,4 kg	25,1 lb
Shipping weight	13 kg	28,6 lb

Notes

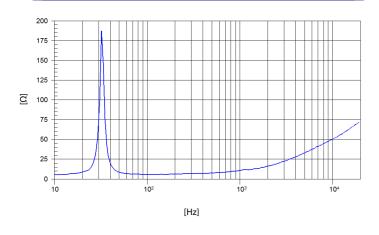
- *The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.
- ** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with 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.



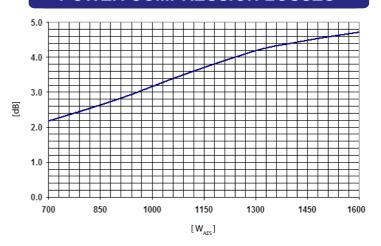
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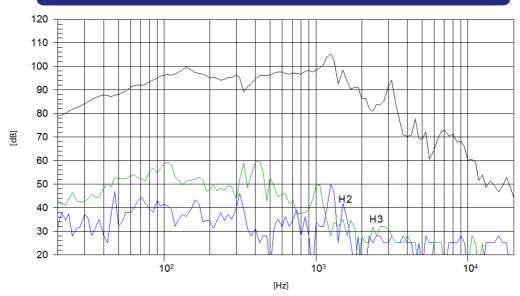
FREE AIR IMPEDANCE CURVE



POWER COMPRESSION LOSSES



FREQUENCY RESPONSE AND DISTORTION



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

beyma //

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