

18G550

LOW FREQUENCY TRANSDUCER G50 Series

KEY FEATURES

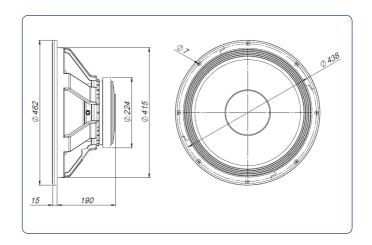
- High power handling: 900 W_{AES}
- 4,5" edgewound copper voice coil with polymide fiber glass former
- Large X_{max} allowing longer voice coil displacements
- CONEX spider for higher resistance and consistency
- Additional heat dissipation due to the use of a metal intercooler
- Designed for high demanding subowoofer and woofer applications



TECHNICAL SPECIFICATIONS

460 mm 18 in
8 Ω
6,8 Ω
900 W _{AES}
1.800 W
97 dB 1W / 1m @ Z _N
35 - 1.500 Hz
80 / 200 I 2,8 / 7 ft ³
114,3 mm 4,5 in
23,4 N/A
0,204 kg
25 mm
12 mm
40 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	33 Hz
D.C. Voice coil resistance, R _e	5,6 Ω
Mechanical Quality Factor, Q _{ms}	7
Electrical Quality Factor, Q _{es}	0,42
Total Quality Factor, Qts	0,40
Equivalent Air Volume to C _{ms} , V _{as}	290 I
Mechanical Compliance, C _{ms}	117 μm / N
Mechanical Resistance, R _{ms}	6 kg / s
Efficiency, η ₀	2,25 %
Effective Surface Area, S _d	0,1320 m ²
Maximum Displacement, X _{max} ***	10 mm
Displacement Volume, V _d	1320 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,8 mH

MOUNTING INFORMATION

Overall diameter Bolt circle diameter	462 mm 438 mm	18,19 in 17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,34 in
Depth	205 mm	8,07 in
Net weight	12,6 kg	27,78 lb
Shipping weight	14,5 kg	31,97 lb

Notes

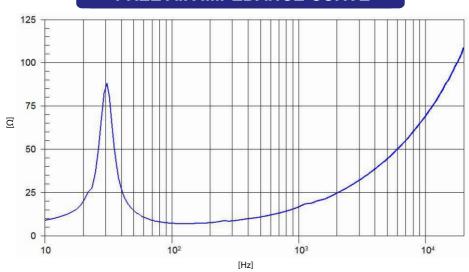
- * The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.
- ** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with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



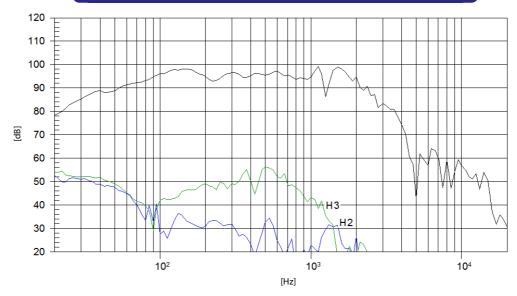
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FREE AIR IMPEDANCE CURVE



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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