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PROFESSIONAL LOUDSPEAKERS
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5G40/Nd
LOW & MID FREQUENCY TRANSDUCER
G40 Series

KEY FEATURES

- Excellent sensitivity (93 dB)
- 200 W program power
- 1,5" (38,5 mm) aluminum voice coil
- Designed for mid-bass applications
- Low weight due to the neodymium magnet system
- Optimized for the use in line array systems

DIMENSION DRAWINGS

TECHNICAL SPECIFICATIONS

Nominal diameter	125 mm	5 in
Rated impedance	8 Ω	
Minimum impedance	6,9 Ω	
Power capacity*	100 W$_{AES}$	
Program power	200 W	
Sensitivity	93 dB @ 1W @ 1m @ Z$_N$	
Frequency range	150 - 17.000 Hz	
Recom. enclosure vol.	10 / 20 l	0,35 / 0,7 ft^3
Voice coil diameter	38,5 mm	1,5 in
Bl factor	10,4 N/A	
Moving mass	0,008 kg	
Voice coil length	9 mm	
Air gap height	7 mm	
X$_{damage}$ (peak to peak)	20 mm	

THIELE-SMALL PARAMETERS**

Resonant frequency, f$_s$	171 Hz
D.C. Voice coil resistance, R$_e$	6,6 Ω
Mechanical Quality Factor, Q$_{ms}$	2,95
Electrical Quality Factor, Q$_{es}$	0,55
Total Quality Factor, Q$_{ts}$	0,46
Equivalent Air Volume to C$_{ms}$, V$_{as}$	1,05 l
Mechanical Compliance, C$_{ms}$	103 μm / N
Mechanical Resistance, R$_{ms}$	3,05 kg / s
Efficiency, η$_0$	0,93 %
Effective Surface Area, S$_d$	0,0085 m^2
Maximum Displacement, X$_{max}$ ***	3 mm
Displacement Volume, V$_d$	66 cm^3
Voice Coil Inductance, L$_e$ @ 1 kHz	0,16 mH
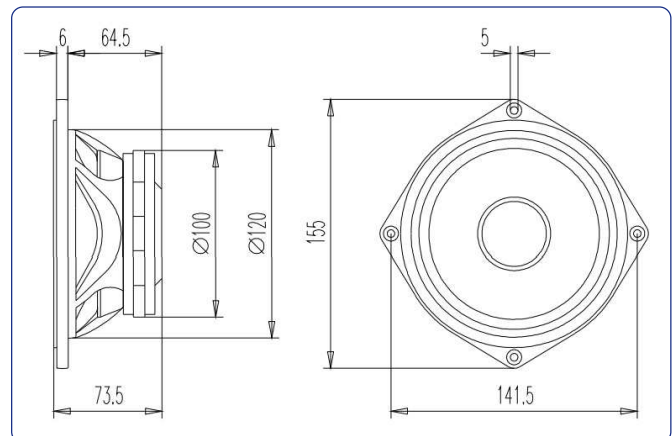
MOUNTING INFORMATION

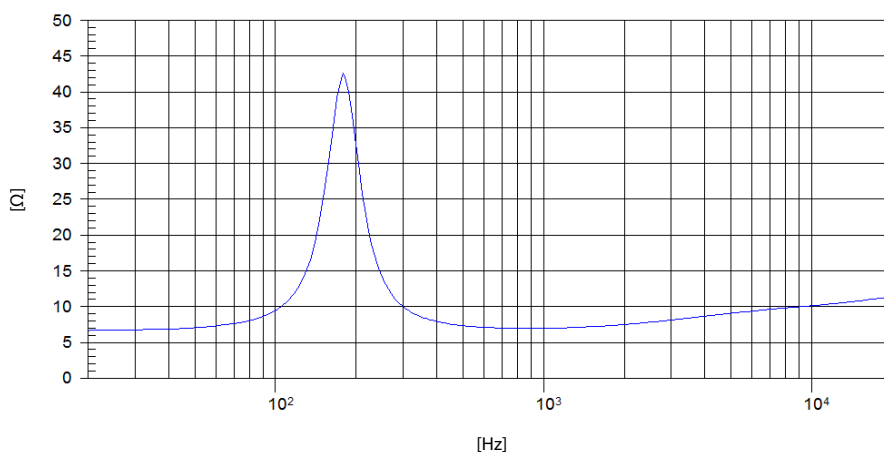|		
Overall diameter	155 mm	6,10 in
Bolt circle diameter	141,5 mm	5,57 in
Baffle cutout diameter:		
- Front mount	120 mm	4,72 in
- Rear mount	120 mm	4,72 in
Depth	73,5 mm	2,89 in
Volume displaced by driver	0,5 l	0,02 ft^3
Net weight	1,3 kg	2,86 lb
Shipping weight	1,8 kg	3,96 lb

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.
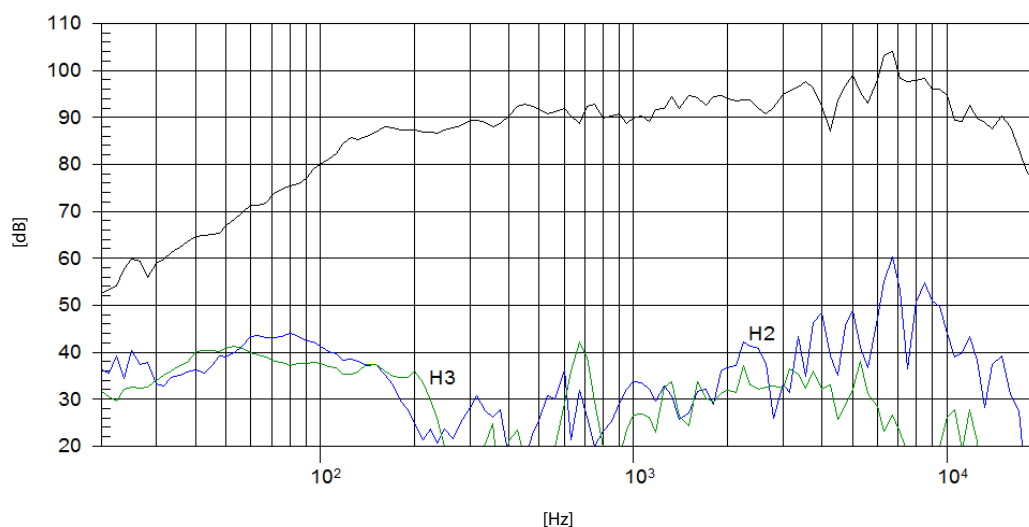
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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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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