

8BR40

LOW FREQUENCY

-Studio-



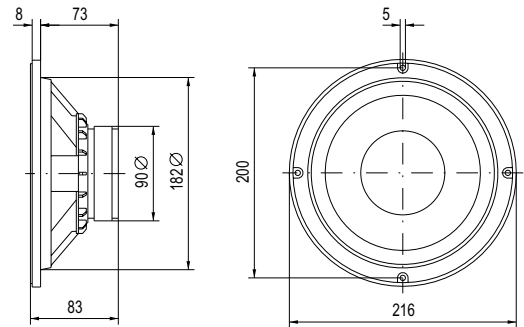
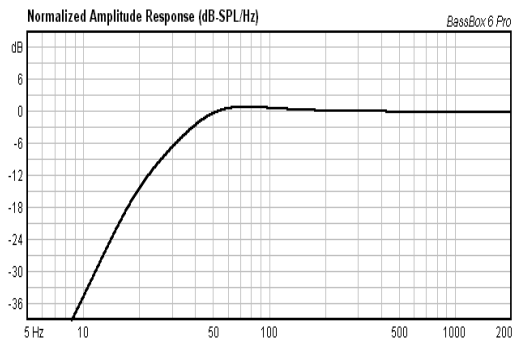
This 8" bass and mid bass loudspeaker has been specifically designed to deliver exceptional low and mid frequency reproduction, with high sensitivity and extremely low distortion. It incorporates a curvilinear cone attached to a rubber surround, in order to provide suspension stability and to allow maximum excursion linearity. By combining a powerful magnet construction with a cast aluminium basket, this model achieves high power capacity, and consequently, contributes to reduce the thermal power compression.

Modelo de 8" de bajas y medias frecuencias. Utiliza un cono curvilineo con el fin de obtener una respuesta lineal, unido a una suspensión de goma sintética para evitar los problemas inherentes a las tradicionales suspensiones de espuma de poliuretano, sujetas a un envejecimiento muy marcado y con unas características mecánicas inestables. Esto se traduce en una respuesta impulsional muy rápida y unas variaciones insignificantes de los parámetros del altavoz con el transcurso del tiempo, lo que redonda en unos graves nitidos y profundos, de gran impacto, y unos medios naturales y de gran definición.

SPECIFICATIONS

Nominal diameter	200 mm - 8 in.
Rated impedance	8 ohms
Power capacity*	50 w RMS
Program Power	100 w
Sensitivity	90 dB 2.83 v @ 1m @ 2π
Frequency range	35 - 6000 Hz
Recom. enclosure vol.	20 - 60 l 0.7 - 2.12 ft. ³
Voice coil diameter	25.8 mm. 1 in.
Magnetic assembly weight	1 kg. 2.2 lb.
BL Factor	6.7 N/A
Moving mass	0.022 kg.
Voice coil length	16 mm.
Air gap height	6 mm.
X damage (peak to peak)	20 mm.

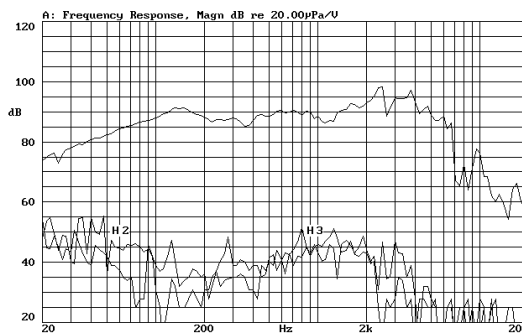
PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=40 l, fb=30.0 Hz



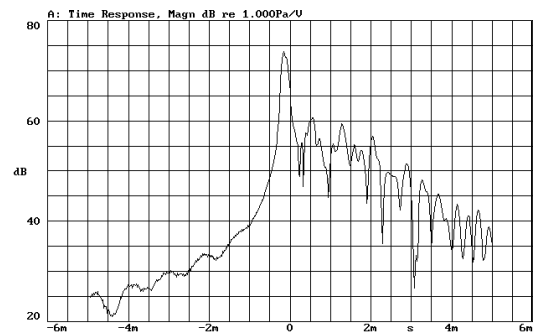
MOUNTING INFORMATION

Overall diameter	216 mm / 8.50 in.
Bolt circle diameter	200 mm / 7.87 in.
Baffle cutout diameter:	
-Front mount	182 mm / 7.16 in.
-Rear mount	185 mm / 7.28 in.
Depth	83 mm / 3.26 in.
Volume displaced by driver	1.5 l / 0.05 ft. ³
Net weight	1.34 kg / 2.93 lb.
Shipping weight	1.5 kg / 3.3 lb.

FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



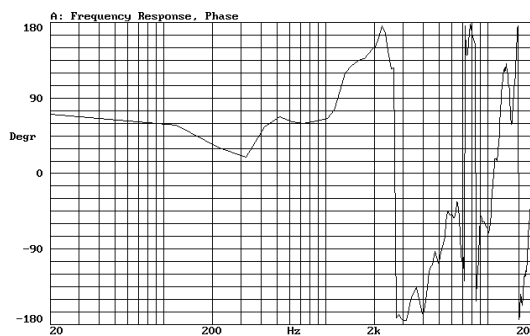
TIME RESPONSE, MAGN.



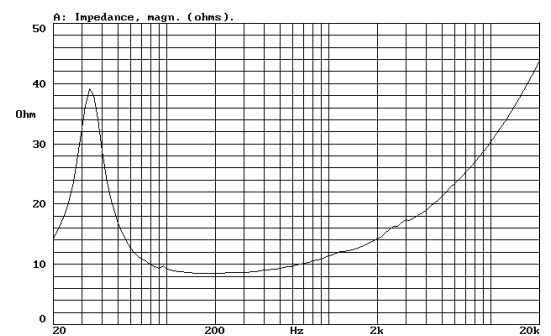
MATERIALS

Basket	Die Cast aluminium
Cone	Paper
Surround	Rubber
Voice coil	Copper
Magnet	Ferrite

FREQUENCY RESPONSE, PHASE. On axis, 1w @ 1m.



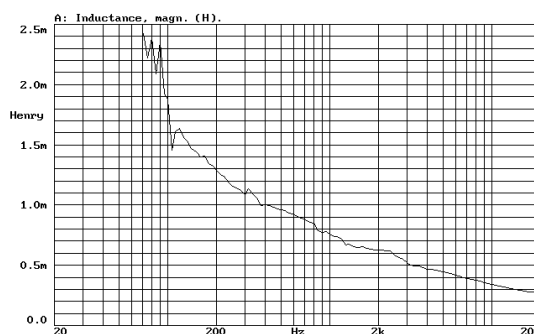
FREE AIR IMPEDANCE CURVE



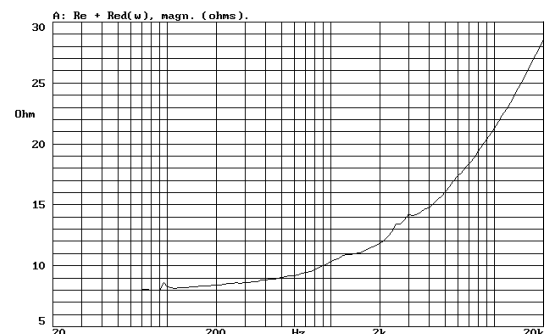
THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	31 Hz
D.C. Voice Coil Resistance, Re	6.3 ohms.
Mechanical Quality Factor, Qms	2.29
Electrical Quality Factor, Qes	0.6
Total Quality Factor, Qts	0.48
Equivalent Air Volume to Cms, Vas	82 l
Mechanical Compliance, Cms	1198 μm/N
Mechanical Resistance, Rms	1.9 kg/s
Efficiency, ηo (%)	0.4
Effective Surface Area, Sd(m ²)	0.022 m ²
Maximum Displacement, Xmax	6 mm
Displacement Volume, Vd	130 cm. ³
Voice Coil Inductance, Le @ 1kHz	0.7 mH

VOICE COIL INDUCTANCE CURVE



Re + Red(w) CURVE



NOTES

*The power capacity corresponds to the RMS maximum value that can dissipate the loudspeaker when a sinus signal is applied for a period of at least two hours.
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, using a velocity-current laser transducer, and will reflect the long term parameters, once the loudspeaker has been working for a short period of time.

NOTAS

*La potencia admisible corresponde a la máxima potencia RMS que puede disipar el altavoz durante al menos dos horas, cuando se le aplica una señal senoidal determinada.

Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias, como sería el proporcionado por el contenido de un pasaje musical normal.

** Los parámetros T-S han sido medidos después de un periodo de fatiga y estabilización de las suspensiones, mediante transductor laser de velocidad-corriente, y son el reflejo de los parámetros a largo plazo del altavoz, una vez éste haya sido instalado y haya trabajado en un corto espacio de tiempo.