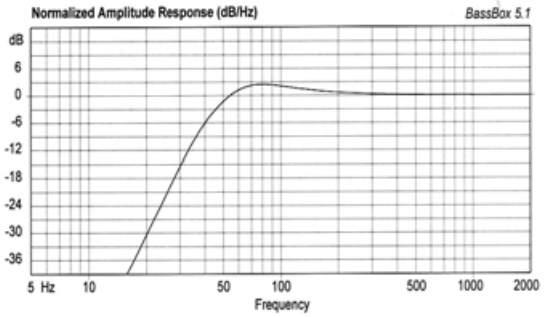
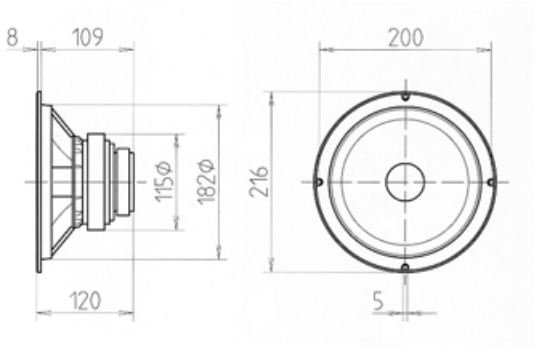
8BX
CO AXIAL

This loudspeaker is a single unit, two-way system, comprising of an 8" bass driver and a concentrically mounted tweeter. This provides a single point source and reduces phasing problems in the crossover region. The bass unit features a 1"3/4 (40mm) voice coil attached to a polypropylene cone and copper ring on the pole piece. This provides a smoothly extended frequency response up to 7 kHz, with reduced harmonic distortion. The compression tweeter shows excellent efficiency and fast response to transient attacks.

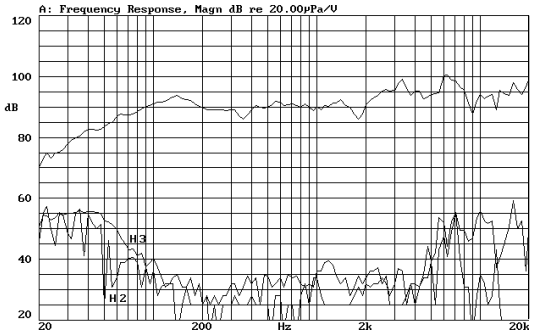
Este altavoz de 8" se compone de 2 unidades montadas de forma concéntrica proporcionando una cobertura total del espectro audible. La unidad de graves utiliza un cono de polipropileno sujeto a una suspensión de goma y movido por una bobina de 1"1/2 realizada con hilo de aluminio, lo que proporciona una respuesta en graves y medios sorprendentemente natural con una banda pasante excepcional. La unidad de agudos utiliza un modelo de comprensión con diafragma y bobinado de aluminio que le confiere un elevado rendimiento y una respuesta transitoria exquisita. Esta combinación ofrece unos resultados espectaculares de naturalidad, dinámica y fidelidad.

PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=30.00 l, fb=50.0 Hz

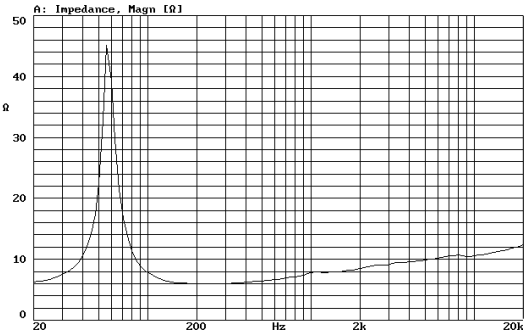




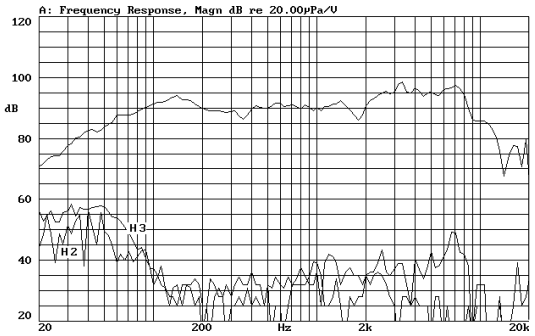
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.
Measured with FD 102, with EQ & -3 dB ATT.



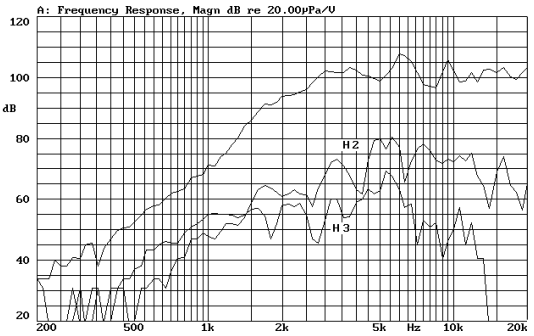
FREE AIR IMPEDANCE CURVE, L.F. UNIT



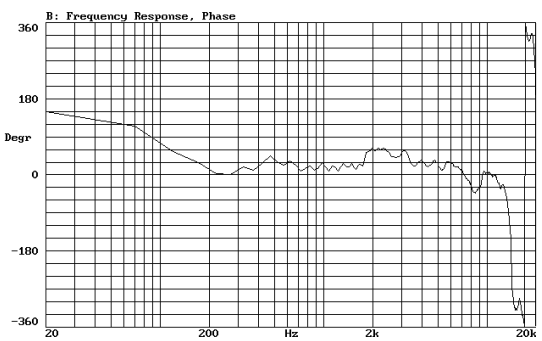
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.
L.F. UNIT



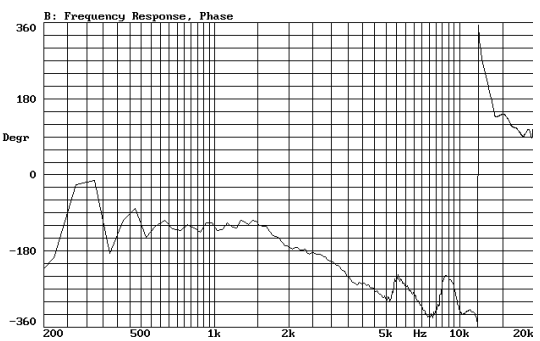
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.
H.F. UNIT



FREQUENCY RESPONSE, PHASE, On axis, 1w @ 1m. L.F. UNIT



FREQUENCY RESPONSE, PHASE On axis, 1w @ 1m. H.F. UNIT



SPECIFICATIONS

L.F. UNIT	
Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms.
Power capacity*	100 w RMS
Program Power	200 Watts.
Sensitivity	92 dB 2.83v @ 1m @ 2π
Frequency range	25-8000 Hz
Recom. enclosure vol.	20/60 l 0.746/2.24 ft.^{3}
Voice coil diameter	38.5 mm. 1 1/2 in.
Magnetic assembly weight	2 kg. 4.4 lb.
BL factor	7.3 N/A
Moving mass	0.023 kg.
Voice coil length	14 mm.
Air gap height	61 mm.
X damage	20 mm.
Voice Coil Inductance, Le@ 1kHz	0.2 mH
H.F. UNIT	
Rated impedance	8 ohms.
Minimum impedance	6 ohm@ 4kHz
Power capacity	15 w
Frequency range	3/20 kHz
Sensitivity 1w @ 1m	102 dB
Voice coil diameter	26 mm. 1 in.
Flux density	1.4 T
BL factor	4 N/A
Dispersion	90°

MOUNTING INFORMATION

Overall diameter	215 mm. 8.46 in.
Bolt circle diameter	200 mm. 7.9 in.
Baffle cutout diameter:	
-Front mount	182 mm. 7.16 in.
-Rear mount	185 mm. 7.3in.
Depth	120 mm. 4.72 in.
Volume displaced by driver	1.5 l 0.056 ft.^{3}
Net weight	2.9 kg. 6.39 lb.
Shipping weight	3.1 kg. 6.83 lb.

MATERIALS

L.F. UNIT	
Basket	Cast aluminium
Cone	Polypropylene
Surround	Rubber
Voice coil	Aluminium
Magnet	Ferrite
H.F. UNIT	
Diaphragm	Aluminium
Voice coil	Edgewound alum. ribbon
Voice coil former	Kapton

THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	52 Hz
D.C. Voice Coil Resistance, Re	5.5 ohms.
Mechanical Quality Factor, Qms	6.1
Electrical Quality Factor, Qes	0.77
Total Quality Factor, Qts	0.68
Equivalent Air Volume to Cms, Vas	23 l
Mechanical Compliance, Cms	400 µm/N
Mechanical Resistance, Rms	1.22 kg/s
Efficiency, ηo (%)	0.53
Effective Surface Area, Sd(m^2)	0.022 m^2
Maximum Displacement, Xmax	5 mm.
Displacement Volume, Vd	110 cm.^{3}

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.