

**(12KX)
CO AXIAL**

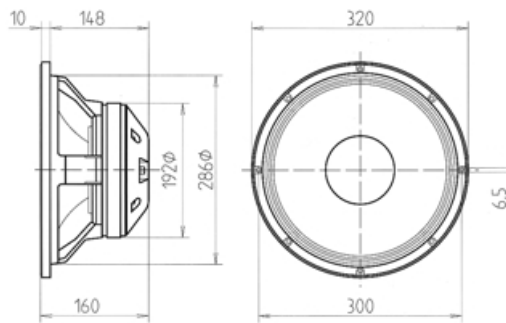
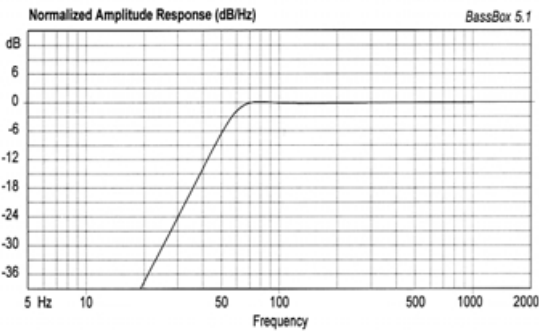
This dual loudspeaker incorporates a 12" bass transducer, featuring a 3" voice coil diameter, edgewound aluminium ribbon wire, and a concentrically mounted 2" compression driver into an integrated voice coil gap magnet system. This design achieves high efficiency, smooth frequency response, low distortion, reduces phasing problems in the crossover region, and simplifies enclosure design.

Sistema coaxial de 12" con bobina de 3" de diámetro y motor de compresión de 2" con diafragma de titanio y bobina de 3". Montados de forma concéntrica están movidos por el mismo circuito magnético.

La asimilación de los focos de emisión a una fuente puntual reduce de forma notable los problemas de fase en la zona de transición entre ambos reproductores confiriendo una respuesta muy coherente. Muy recomendado para aplicaciones en sistemas bass-reflex de tamaño compacto.



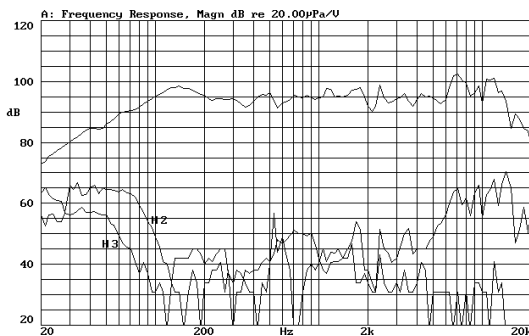
PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=60.00 l, fb=60.00 Hz



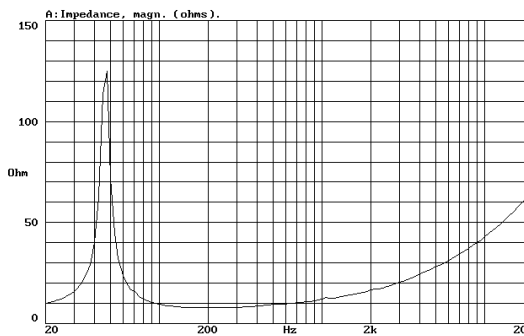
SPECIFICATIONS

L.F. UNIT	
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Power capacity*	250 w RMS
Program Power	500 Watts
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	35-3000 Hz
Recom. enclosure vol.	40/100 l 1.49/3.53 ft. ³
Voice coil diameter	77 mm. 3 in.
Magnetic assembly weight	6.4 kg. 14.11 lb.
BL factor	14.5 N/A
Moving mass	0.045 kg.
Voice coil length	13 mm.
Air gap height	8 mm.
X damage	30 mm.
Voice Coil Inductance, Le@ 1kHz	1 mH

FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. Measured with FD 212, with EQ & -6 dB ATT.



FREE AIR IMPEDANCE CURVE, L.F. UNIT



H.F. UNIT	
Rated impedance	8 ohms.
Minimum impedance	11 ohm@ 1kHz
Power capacity	80 w
Frequency range	0.8 - 17 kHz
Sensitivity 1w @ 1m	105 dB
Voice coil diameter	72.2 mm. 2.8 in.
Flux density	1.875 T
BL factor	11 N/A
Dispersion	90°

MOUNTING INFORMATION

Overall diameter	320 mm. 12.6 in.
Bolt circle diameter	300 mm. 11.8 in.
Baffle cutout diameter:	
-Front mount	286 mm. 11.26 in.
-Rear mount	280 mm. 11.02 in.
Depth	160 mm. 6.30 in.
Volume displaced by driver	7 l 0.25 ft. ³
Net weight	7.85 kg. 17.31 lb.
Shipping weight	8.5 kg. 18.73 lb.

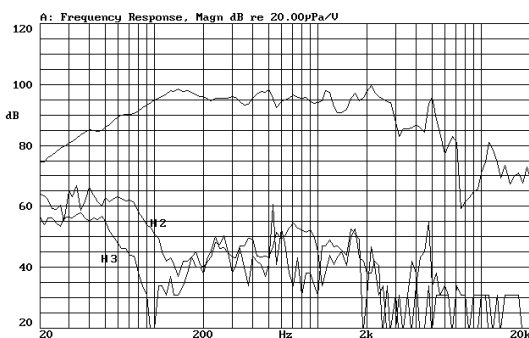
MATERIALS

L.F. UNIT	
Basket	Cast aluminium
Cone	Paper
Surround	Plasticised cloth
Voice coil	Edgewound alum. ribbon
Magnet	Ferrite
H.F. UNIT	
Diaphragm	Titanium
Voice coil	Edgewound alum. ribbon
Voice coil former	Kapton

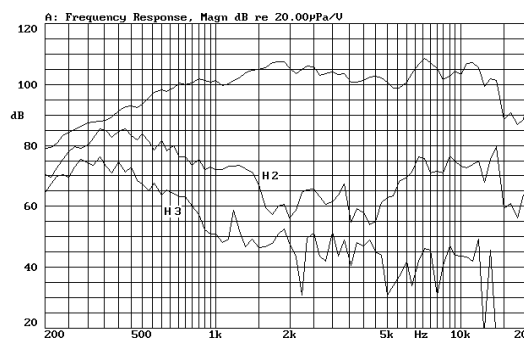
THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	45 Hz
D.C. Voice Coil Resistance, Re	5.6 ohms.
Mechanical Quality Factor, Qms	10.4
Electrical Quality Factor, Qes	0.380
Total Quality Factor, Qts	0.370
Equivalent Air Volume to Cms, Vas	70 l
Mechanical Compliance, Cms	186 µm/N
Mechanical Resistance, Rms	1.49 kg/s
Efficiency, η (%)	2.9
Effective Surface Area, Sd(m ²)	0.055 m ²
Maximum Displacement, Xmax	3.5 mm.
Displacement Volume, Vd	200 cm. ³

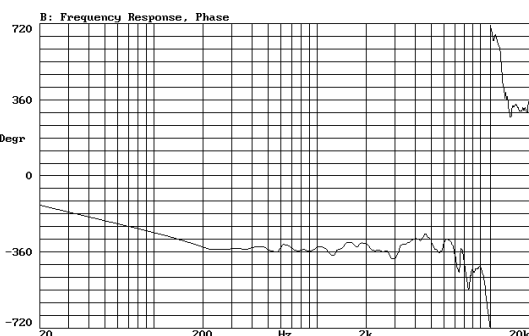
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. L.F. UNIT



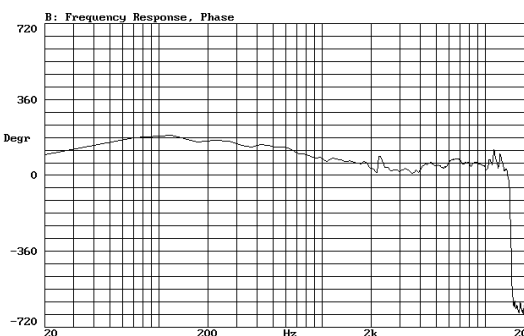
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m. H.F. UNIT



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



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



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.