

-Pro-

12G250/R

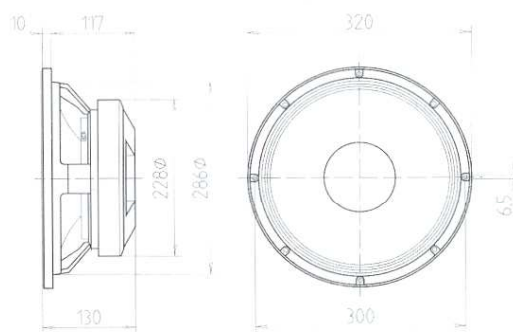
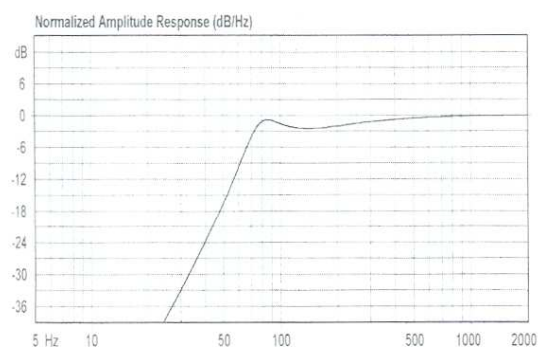
SOUND REINFORCEMENT

This 12" unit demonstrates high efficiency, low distortion, and excellent power handling capacity, with an extended flat frequency response in the mid-bass region. This model features a 4" edgewound ribbon voice coil, coupled to a massive, powerful magnet system, which provides a symmetrical magnetic field and contributes to heat dissipation. This model is well suited for mid-bass usage in high power sound reinforcement systems.

Modelo de 12" con doble suspensión, motor de alto rendimiento y un sistema móvil ligero que proporciona una respuesta transitoria excelente y una banda pasante excepcional. La bobina de 4" de tamaño contribuye a reducir la compresión de potencia por efecto térmico de manera notable.



PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=35.00 l, fb=75.0 Hz



SPECIFICATIONS

Nominal diameter	300 mm, 12 in.
Rated impedance	8 ohms
Power capacity*	200 w RMS
Program Power	400 w RMS
Sensitivity	101 dB, 2.83v @ 1m @ 2π
Frequency range	40-4500 Hz
Recom. enclosure vol.	20/50 l 0.72/1.78 ft. ³
Voice coil diameter	100 mm, 4 in.
Magnetic assembly weight	8.6 kg, 18.96 lb.
BL factor	22.93 N/A
Moving mass	0.058 kg.
Voice coil length	12 mm.
Air gap height	7 mm.
X damage (peak to peak)	29 mm.

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, 11.83 in.
Depth	130 mm, 5 in.
Volume displaced by driver	5.5 l 0.19 ft. ³
Net weight	9.72 kg, 21.38 lb.
Shipping weight	10.4 kg, 22.93 lb.

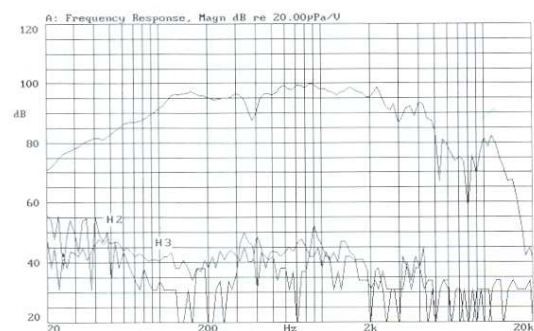
MATERIALS

Basket	Die Cast aluminium
Cone	Paper
Surround	Plasticised cloth
Voice coil	Edgewound cooper ribbon
Magnet	Ferrite

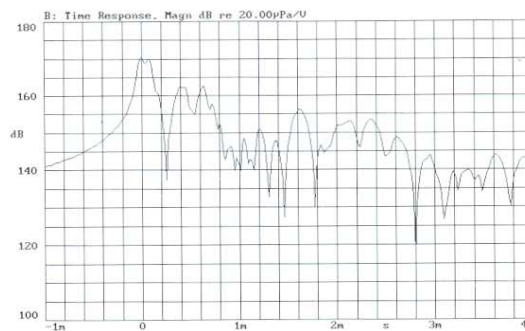
THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	41 Hz
D.C. Voice Coil Resistance, Re	6.2 ohms.
Mechanical Quality Factor, Qms	4.24
Electrical Quality Factor, Qes	0.180
Total Quality Factor, Qts	0.173
Equivalent Air Volume to Cms, Vas	106 l
Mechanical Compliance, Cms	260 μm/N
Mechanical Resistance, Rms	3.52 kg/s
Efficiency, η (%)	4
Effective Surface Area, Sd(m ²)	0.053 m ²
Maximum Displacement, Xmax	2 mm.
Displacement Volume, Vd	105 cm. ³
Voice Coil Inductance, Le @ 1kHz	1 mH

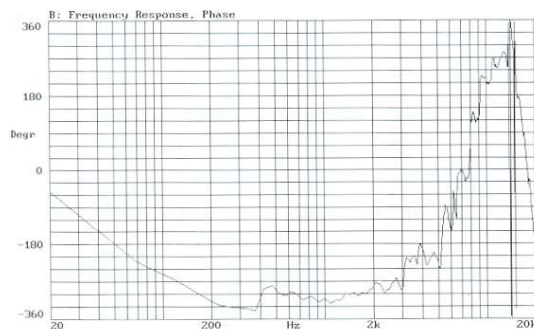
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



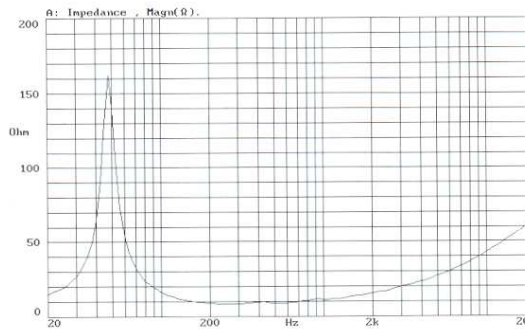
TIME RESPONSE, MAGN.



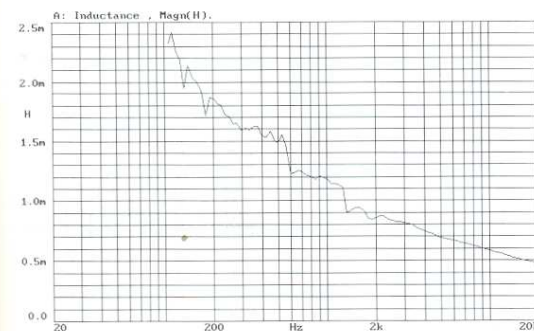
FREQUENCY RESPONSE, PHASE. On axis, 1w @ 1m.



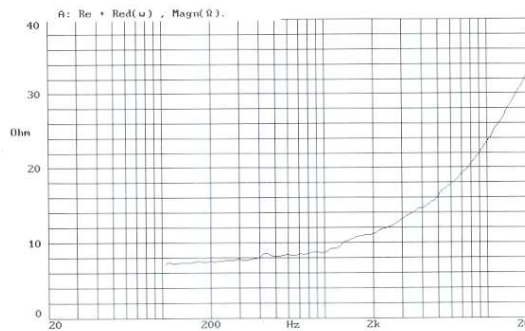
FREE AIR IMPEDANCE CURVE



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.