

-Pro-

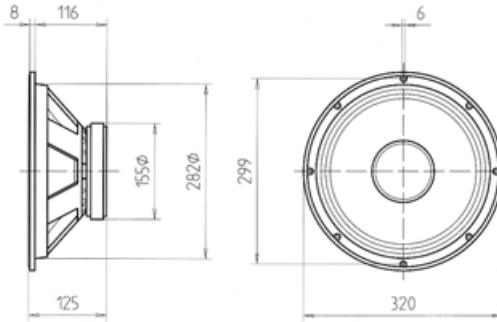
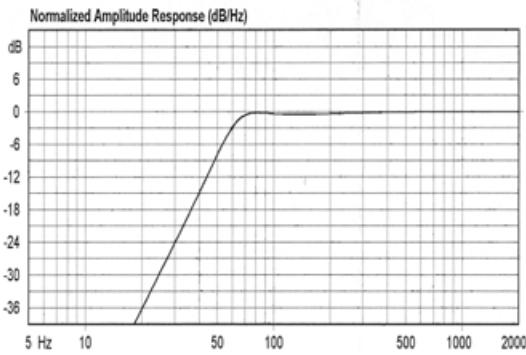
((12G125)) SPECIAL DUTY

This 12" loudspeaker has been designed to reproduce low and mid frequencies. It features 2" (52mm) voice coil diameter, lightweight curvilinear cone and massive magnet system. This model offers good efficiency, with extended frequency response and reduced harmonic distortion. It is well suited for bass applications, in 2 or 3 way systems.

Modelo de 12" con un excelente compromiso entre potencia admisible, respuesta en frecuencia y rendimiento. Utiliza una bobina de 2" de diámetro, unida a un cono curvilineo de gran ligereza. Ofrece una banda pasante muy amplia que permite una aplicación en sistemas de 2 ó 3 vías de tamaño reducido.



PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=50.00 l, fb=60.0 Hz



SPECIFICATIONS

Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Power capacity*	125 w RMS
Program Power	250 Watts.
Sensitivity	98 dB, 2.83v @ 1m @ 2π
Frequency range	45-6000 Hz
Recom. enclosure vol.	30/100 l 1.06/3.53 ft. ³
Voice coil diameter	52 mm. 2 in.
Magnetic assembly weight	3.85 kg. 8.5 lb.
BL factor	15.8 N/A
Moving mass	0.045 kg.
Voice coil length	15 mm.
Air gap height	7 mm.
X damage (peak to peak)	16 mm.

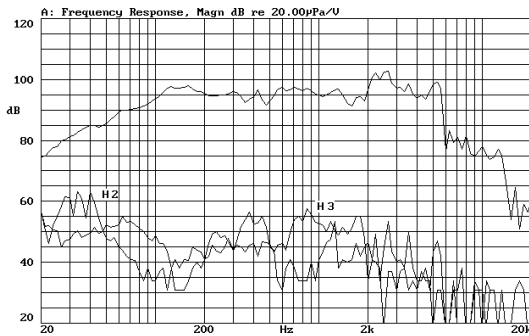
MOUNTING INFORMATION

Overall diameter	320 mm. 12.6 in.
Bolt circle diameter	299 mm. 11.77 in.
Baffle cutout diameter:	
-Front mount	286 mm. 11.26 in.
-Rear mount	280 mm. 11.02 in.
Depth	125 mm. 4.88 in.
Volume displaced by driver	4.5 l 0.16 ft. ³
Net weight	4.5 kg. 9.9 lb.
Shipping weight	5.1 kg. 11.24 lb.

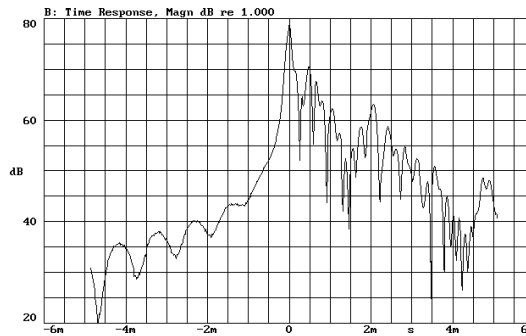
MATERIALS

Basket	Die cast aluminium
Cone	Paper
Surround	Plasticised cloth
Voice coil	Copper
Magnet	Ferrite

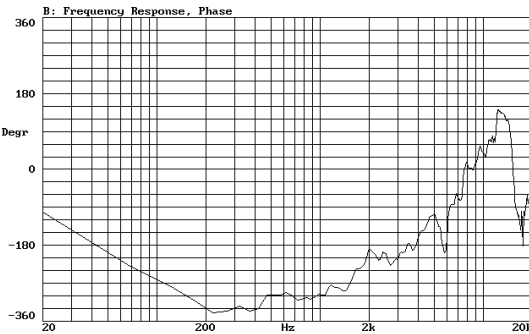
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



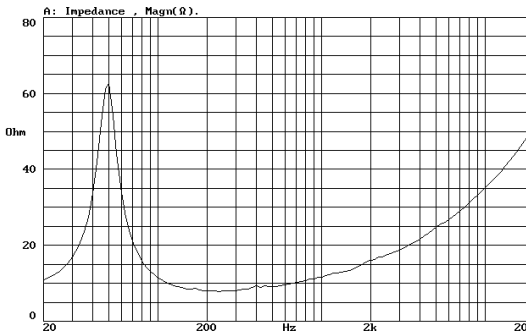
TIME RESPONSE, MAGN.



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



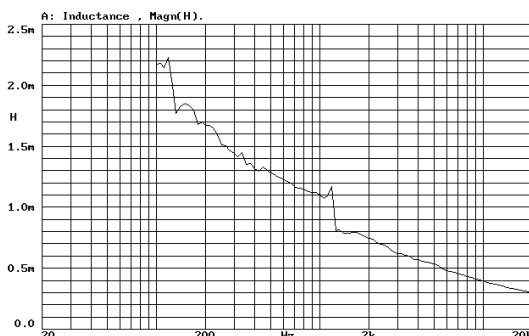
FREE AIR IMPEDANCE CURVE



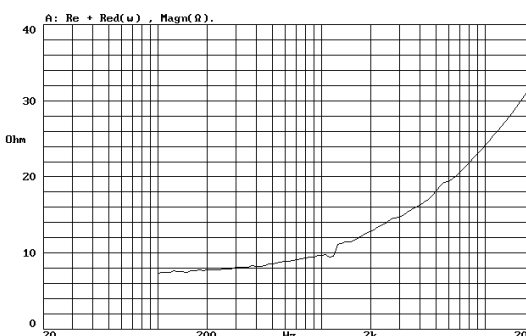
THIELE-SMALL PARAMETERS**

Resonant Frequency, fs	41 Hz
D.C. Voice Coil Resistance, Re	6.5 ohms.
Mechanical Quality Factor, Qms	2.01
Electrical Quality Factor, Qes	0.31
Total Quality Factor, Qts	0.27
Equivalent Air Volume to Cms, Vas	122 l
Mechanical Compliance, Cms	335 μm/N
Mechanical Resistance, Rms	5.77 kg/s
Efficiency, ηo (%)	2.6
Effective Surface Area, Sd(m ²)	0.051 m ²
Maximum Displacement, Xmax	4 mm.
Displacement Volume, Vd	204 cm. ³
Voice Coil Inductance, Le @ 1kHz	1 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.