

-Studio-

The 12 B100/R is a high compliance, bass loudspeaker, featuring wide, single polyurethane foam roll, a 4" voice coil diameter, and a massive, powerful magnet system. These ensure excellent efficiency and extended low frequency response. This model has been designed for use in bass-reflex or closed enclosures, in high quality multi-way systems.

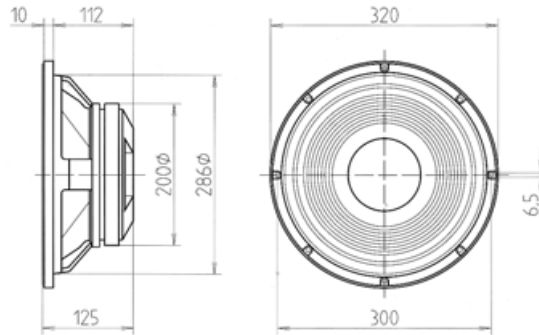
Este altavoz de 12" de alta elasticidad, diseñado para aplicaciones de subwoofer o de graves, está dotado de una suspensión de espuma de media caña que le permite una elongación importante, y bobina de 4" de hilo plano movida por un circuito magnético de gran tamaño que le asegura una amplia respuesta en frecuencia con unos bajos profundos y contundentes. Diseñado para una utilización en recintos bass-reflex de sistemas de gran calidad.

12B100/R

LOW FREQUENCY



PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=45.00 l, fb=38.0 Hz



SPECIFICATIONS

| | |
|--------------------------|-----------------------------------|
| Nominal diameter | 300 mm. 12 in. |
| Rated impedance | 8 ohms. |
| Power capacity* | 150 w RMS |
| Program Power | 300 Watts. |
| Sensitivity | 93.6 dB, 2.83v @ 1m @ 2π |
| Frequency range | 25-4000 Hz |
| Recom. enclosure vol. | 40/90 l 1.4/3.15 ft. ³ |
| Voice coil diameter | 100 mm. 4 in. |
| Magnetic assembly weight | 6.4 kg. 14.08 lb. |
| BL factor | 17.2 N/A |
| Moving mass | 0.077 kg. |
| Voice coil length | 12 mm. |
| Air gap height | 7 mm. |
| X damage (peak to peak) | 28 mm. |

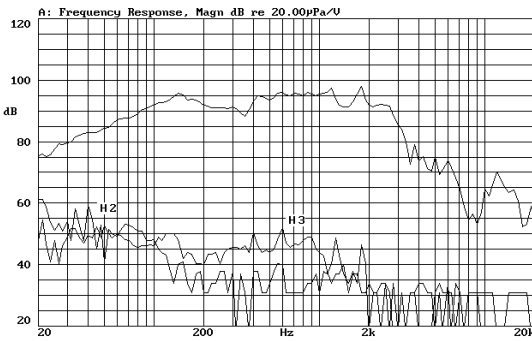
MOUNTING INFORMATION

| | |
|----------------------------|-----------------------------|
| 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. 11.02 in. |
| Depth | 125 mm. 4.92 in. |
| Volume displaced by driver | 5.5 l 0.19 ft. ³ |
| Net weight | 7.4 kg. 16.3 lb. |
| Shipping weight | 8 kg. 17.6 lb. |

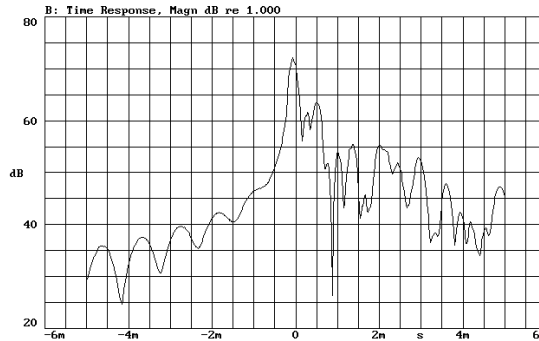
MATERIALS

| | |
|------------|-------------------------|
| Basket | Die Cast aluminium |
| Cone | Paper |
| Surround | Polyurethane foam |
| Voice coil | Edgewound copper ribbon |
| Magnet | Ferrite |

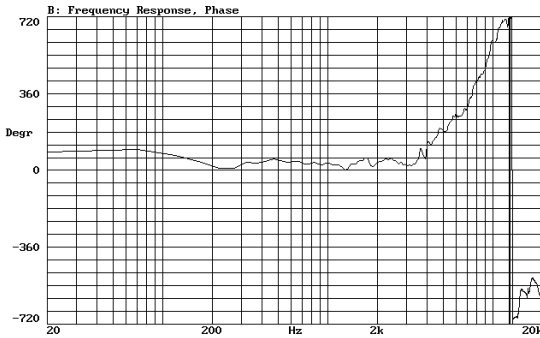
FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



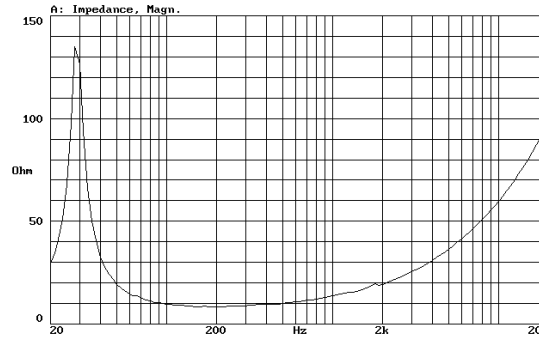
TIME RESPONSE, MAGN.



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



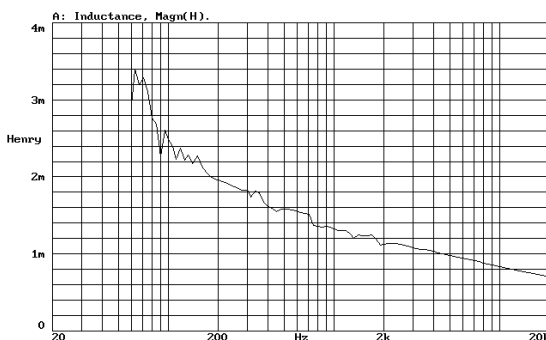
FREE AIR IMPEDANCE CURVE



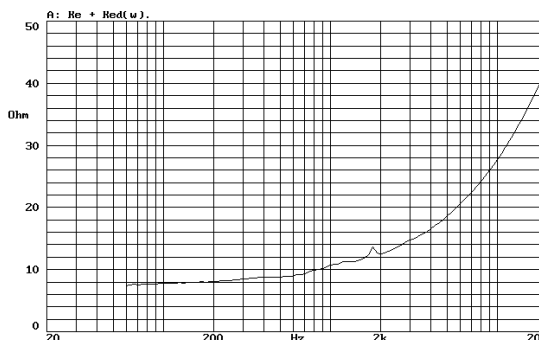
THIELE-SMALL PARAMETERS**

| | |
|---|----------------------|
| Resonant Frequency, fs | 29 Hz |
| D.C. Voice Coil Resistance, Re | 6.6 ohms. |
| Mechanical Quality Factor, Qms | 6.49 |
| Electrical Quality Factor, Qes | 0.31 |
| Total Quality Factor, Qts | 0.30 |
| Equivalent Air Volume to Cms, Vas | 154 l |
| Mechanical Compliance, Cms | 392 µm/N |
| Mechanical Resistance, Rms | 2.16 kg/s |
| Efficiency, ηo (%) | 1.2 |
| Effective Surface Area, Sd(m ²) | 0.053 m ² |
| Maximum Displacement, Xmax | 3 mm. |
| Displacement Volume, Vd | 160 cm. ³ |
| Voice Coil Inductance, Le @ 1kHz | 1.3 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.