# 6B30/P
## LOW & MiD FREQUENCY

-Studio-

This 6"1/2 unit has been designed to provide a wide, smooth response in the low and mid frequency range, with reduced harmonic distortion due to the use of a copper ring on the pole piece, and polypropylene material in the cone construcion for a clean, natural sound reproduction. This model is especially recommended for studio and domestic applications, in small size 2 or 3 way enclosures.

Modelo de 6"1/2 con unas características exclusivas para alta fidelidad: membrana de polipropileno y suspensión de goma de gran elongación y estructura magnética de gran tamaño. El resultado son unos bajos de gran impacto y unos medios nítidos y naturales para recintos de tipo bass-reflex o herméticos.

### SPECIFICATIONS

| | |
|---|---|
| Nominal diameter | 165 mm. 6.5 in. |
| Rated impedance | 8 ohms. |
| Power capacity* | 50 w RMS |
| Program Power | 80 Watts. |
| Sensitivity | 90 dB 2.83 v @ 1m @ 2π |
| Frequency range | 50-12000 Hz |
| Recom. enclosure vol. | 10/40 l 0.35/1.4 ft.³ |
| Voice coil diameter | 26 mm. 1 in. |
| Magnetic assembly weight | 1 kg. 2.2 lb. |
| BL factor | 5.9 N/A |
| Moving mass | 0.014 kg |
| Voice coil length | 14 mm. |
| Air gap height | 6 mm. |
| X damage (peak to peak) | 15 mm. |

### MOUNTING INFORMATION

| | |
|---|---|
| Overall diameter | 166 mm. 6.53 in. |
| Bolt circle diameter | 156 mm. 6.14 in. |
| Baffle cutout diameter: | |
| -Front mount | 140 mm. 5.51 in. |
| -Rear mount | 140 mm. 5.51 in. |
| Depth | 78 mm. 3.07 in. |
| Volume displaced by driver | 0.5 l 0.019 ft.³ |
| Net weight | 1.25 kg. 2.76 lb. |
| Shipping weight | 1.5 kg. 3.3 lb. |

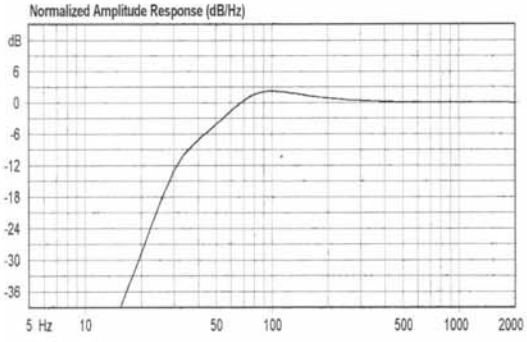
### MATERIALS

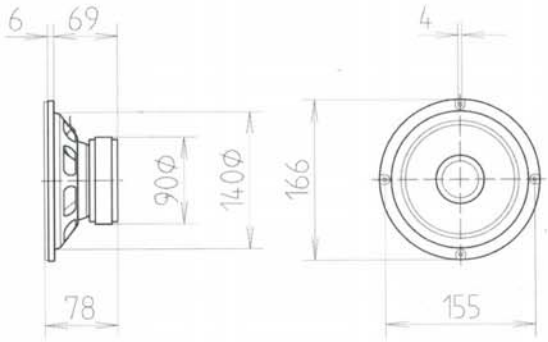
| | |
|---|---|
| Basket | Steel |
| Cone | Polypropylene |
| Surround | Rubber |
| Voice coil | Copper wire |
| Magnet | Ferrite |

### THIELE-SMALL PARAMETERS**

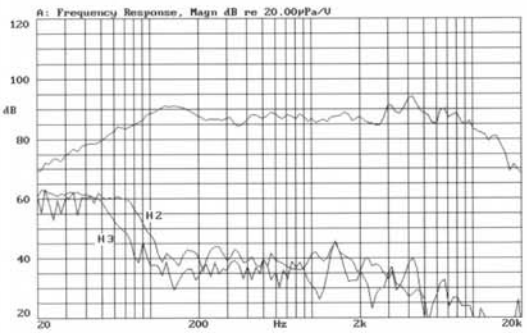
| | |
|---|---|
| Resonant Frequency, fs | 55 Hz |
| D.C. Voice Coil Resistance, Re | 5.9 ohms |
| Mechanical Quality Factor, Qms | 3.36 |
| Electrical Quality Factor, Qes | 0.76 |
| Total Quality Factor, Qts | 0.62 |
| Equivalent Air Volume to Cms, Vas | 18 l |
| Mechanical Compliance, Cms | 599 µm/N |
| Mechanical Resistance, Rms | 1.44 kg/s |
| Efficiency, ηo (%) | 0.4 |
| Effective Surface Area, Sd(m²) | 0.014 m² |
| Maximum Displacement, Xmax | 4 |
| Displacement Volume, Vd | 56 cm.³ |
| Voice Coil Inductance, Le @ 1kHz | 0.5 mH |

PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=15.00 l, fb=45.0 Hz

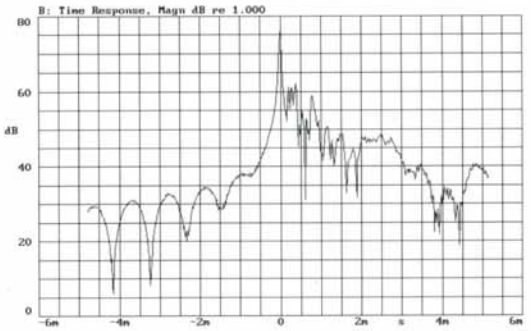


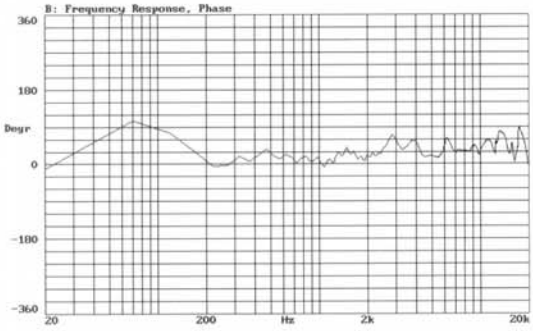

FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



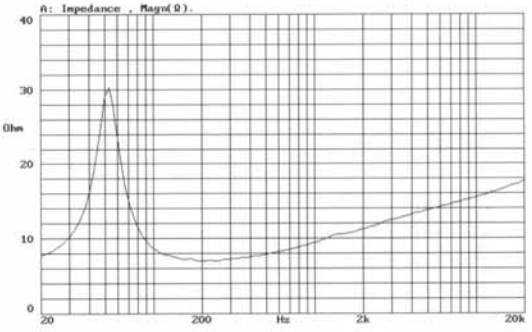

TIME RESPONSE, MAGN.



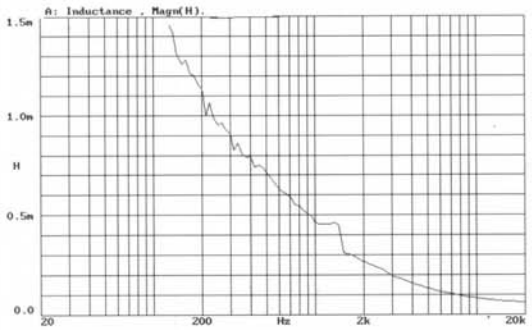

FREQUENCY RESPONSE, PHASE. On axis, 1w @ 1m.



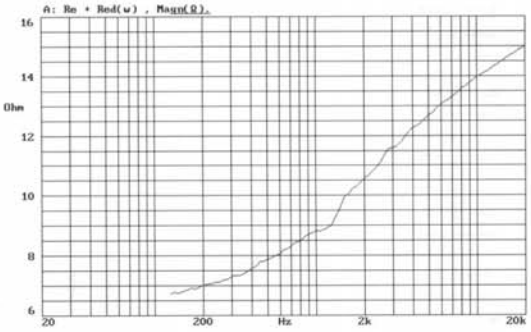

FREE AIR IMPEDANCE CURVE




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.