

18TLW3000

Extended LF Ferrite Transducer

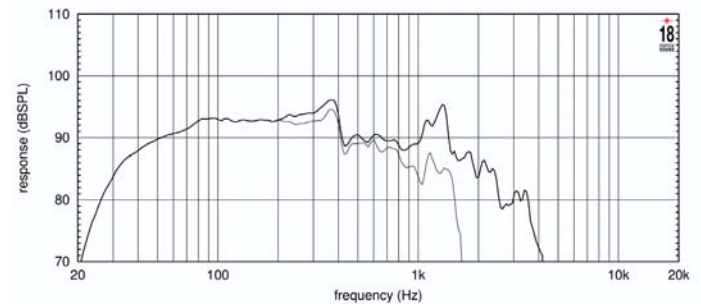
- 3600 W program power handling
- 100 mm (4 in) Tetracoil dual voice coil, equivalent to a single coil diameter larger than 152 mm (> 6 in)
- Ultra linear suspension behavior for excellent sound clarity
- Symmetric flux density and inductance behaviour
- Low noise forced air cooling design
- Water repellent cone and epoxy coated plates for outdoor use
- Suitable for vented, horn loaded and bandpass subwoofer design



GENERAL SPECIFICATIONS

| | |
|-------------------------------|-----------------------------------|
| Nominal Diameter | 460 mm (18 in) |
| Rated Impedance | 8 Ohm |
| AES Power (1) | 1800 W |
| Program Power (2) | 3600 W |
| Peak Power | 10000 W |
| Sensitivity (3) | 95 dB |
| Frequency Range (4) | 30 - 2000 Hz |
| Power Compression @-10dB | 0,6 dB |
| Power Compression @-3dB | 2,0 dB |
| Power Compression @Full Power | 3,4 dB |
| Max Recomm. Frequency | 300 Hz |
| Recomm. Enclosure Volume | 100 - 350 lt. (3,53 - 12,36 cuft) |
| Minimum Impedance | 5,7 Ohm at 25°C |
| Max Peak To Peak Excursion | 45 mm (1.77 in) |

FREQUENCY RESPONSE CURVE

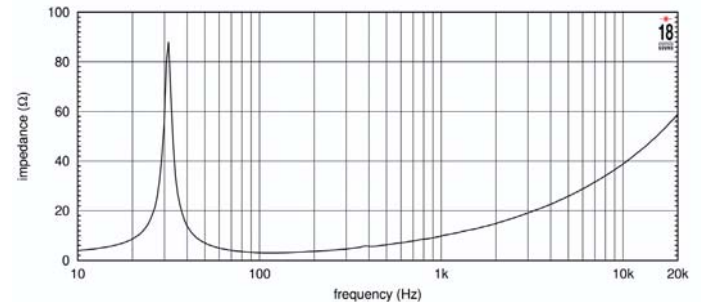


FREQUENCY RESPONSE MADE IN 180 LT. ENCLOSURE TUNED AT 35 Hz IN FREE FIELD (4p) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER, THE THIN LINE REPRESENTS 45° OFF AXIS FREQUENCY RESPONSE

THIELE SMALL PARAMETERS (5)

| | |
|------------------------------------|---------------------------------|
| Fs | 33 Hz |
| Re | 4,6 Ohm |
| Sd | 0,1225 sq. mt. (189,88 sq. in.) |
| Qms | 13,00 |
| Qes | 0,42 |
| Qts | 0,41 |
| Vas | 185 lt. (6.53 cuft) |
| Mms | 266 gr. (0,59 lb) |
| BL | 24,5 Tm |
| linear Mathematical Xmax (6) | ± 12 mm (± 0,47 in) |
| le (1kHz) | 1,80 mH |
| Ref. Efficiency 1W@1m (half space) | 94,0 dB |

FREE AIR IMPEDANCE MAGNITUDE CURVE



FREE AIR IMPEDANCE MAGNITUDE CURVE

MOUNTING INFORMATION

| | |
|--------------------------------|--|
| Overall diameter | 462 mm (18,18 in) |
| N. of mounting holes and bolt | 8 |
| Mounting holes diameter | 8,5 mm (0,33 in) |
| Bolt circle diameter | 438-440 mm (17,24-17,32 in) |
| Front mount baffle cutout Ø | 425 mm (16,73 in) |
| Rear mount baffle cutout Ø | 414 mm (16,30 in) |
| Total depth | 275 mm (10,83 in) |
| Flange and gasket thickness | 24 mm (0,94 in) |
| Net weight | 13,2 kg (29,10 lb) |
| Shipping weight | 14 kg (30,86 lb) |
| CardBoard Packaging dimensions | 482 x 482 x 257 mm (19 x 19 x 10,1 in) |

NOTES

- (1) AES power is determined according to AES2-1984 (r2003) standard
- (2) Program power rating is measured in 180 lit enclosure tuned 35Hz using a 40 - 400Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- (3) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for (1) above.
- (4) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
- (5) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.
- (6) Linear Math. Xmax is calculated as $(Hvc/Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.