# 21TNLW5000

## NEODYMIUM TETRACOIL TRANSDUCER



96,5 dB SPL 1W / 1m average sensitivity
Dual 115mm (4,5 in) Tetracoil Aluminum Voice coil
4000 W program power handling
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
Suitable for vented, horn loaded and bandpass applications

### GENERAL SPECIFICATIONS

| | | |
|---|---|---|
| Nominal diameter | 533 mm | (21 in) |
| Rated impedance | 8 Ohm | |
| AES power (1) | 1800 W | |
| Program power (2) | 4000 W | |
| Sensitivity (3) | 96,5 dB | |
| Max recomm. frequency | 150 Hz | |
| Recomm. enclosure volume | 120 ÷ 250 lt. | (4.24÷8.83cuft) |
| Voice coil diameter | Dual 115 mm | (Dual 4,5 in) |
| Voice coil winding material | Aluminum | |
| Suspension | Triple roll, Polycotton | |
| Cone | Curvilinear paper composite, Water and UV resistant | |

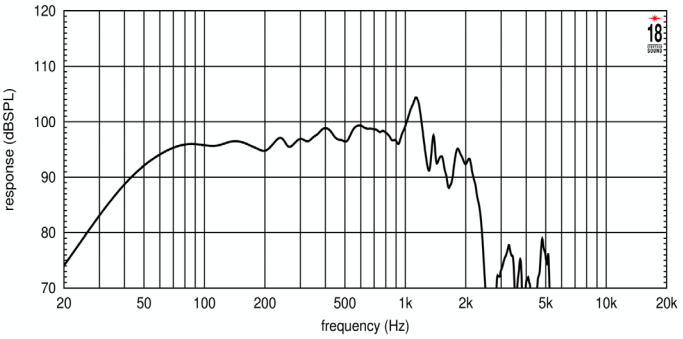
### THIELE SMALL PARAMETERS (4)

| | | |
|---|---|---|
| Fs | 31 Hz | |
| Re | 5,3 Ohm | |
| Sd | 0,1662 sq.mt | (257.61 sq.in.) |
| Qms | 5.20 | |
| Qes | 0.38 | |
| Qts | 0.36 | |
| Vas | 270 lt | (9,54 cuft) |
| Mms | 372 gr | (0,82 lb) |
| BL | 32 Tm | |
| Linear Mathematical X max (5) | ± 17,5 mm | (± 0,69 in) |
| Le (1kHz) | 1,60 mH | |
| Ref. Efficiency 1W@1m (half space) | 2,1% | |

### MOUNTING INFORMATIONS

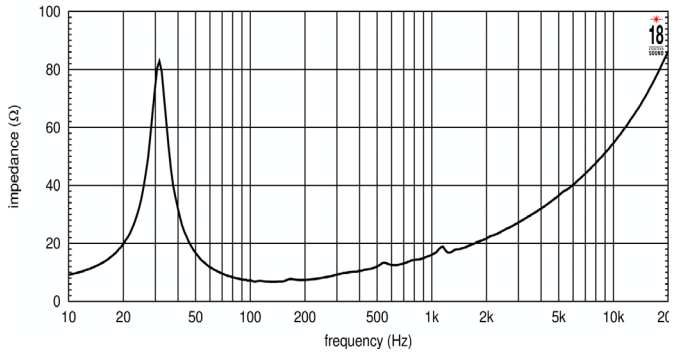
| | | |
|---|---|---|
| Overall diameter | 545 mm | (21.46 in) |
| N. of mounting holes | 8 | |
| Mounting hole diameter | 8,5 mm | (0,33 in) |
| Bolt circle diameter | 520 mm | (20,47 in) |
| Front mount baffle cutout diameter | 492 mm | (19.37 in) |
| Rear mount baffle cutout diameter | 490 mm | (19.29 in) |
| Total depth | 320 mm | (12,60 in) |
| Flange and gasket thickness | 18 mm | (0,71 in) |
| Net weight | 12,5 kg | (27,56 lb) |

### FREQUENCY RESPONSE CURVE




FREQUENCY RESPONSE MADE IN 160 LT. ENCLOSURE TUNED AT 33 Hz IN FREE FIELD (4π) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER

### FREE AIR IMPEDANCE MAGNITUDE CURVE




### NOTES

(1) AES power is determined according to AES2-1984 standard.
(2) Program power rating is measured in 160 lit. enclosure tuned at 33 Hz using a 30-300 Hz band limited pink noise test signal applied for 2 hours and with 50% duty cycle.
(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 100 Hz and 1000 Hz with the test specimen mounted in the same enclosure as given for 2 above.
(4) 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.
(5) Linear Mat. Xmax is calculated as; (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is gap depth.

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