## CELESTIOח

## LF Loudspeakers

## TF1830



- Balanced Airflow Venting provides enhanced cooling
- Multi-layer voice coil
- Compact high flux Dual Magnet Motor design


## Frequency Response and Impedance Curves



Topmost curve: Frequency response on axis | Secondary curve: Frequency
response at $45^{\circ}$ off axis response al $45^{\circ}$ off axis

## General Specifications

| Nominal Diameter | $457 \mathrm{~mm} / 18 \mathrm{in}$ |
| :--- | :--- |
| Power Rating | 500 W |
| Continuous power rating | 1000 W |
| EIA power rating | 650 W |
| Rated impedance | $4 \Omega$ |
| Sensitivity | 96 dB |
| Frequency range | $35-1000 \mathrm{~Hz}$ |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | $1.8 \mathrm{~kg} / 65 \mathrm{oz}$ |
| Voice coil diameter | $75 \mathrm{~mm} / 3 \mathrm{in}$ |
| Voice coil material | Round copper |
| Former material | Glass Fibre |
| Cone material | Glass loaded pap |
|  | sistant) |
| Surround material | Cloth-sealed |
| Suspension | Single |
| Xmax | $4.5 \mathrm{~mm} / 0.18 \mathrm{in}$ |
| Gap height (Hg) | $8 \mathrm{~mm} / 0.31 \mathrm{in}$ |
| VC winding height (Hvc) | $17 \mathrm{~mm} / 0.67 \mathrm{in}$ |

## Mounting Information

| Overall diameter | $460 \mathrm{~mm} / 18.11 \mathrm{in}$ |
| :--- | :--- |
| Overall depth | $209 \mathrm{~mm} / 8.22 \mathrm{in}$ |
| Cut-out diameter | $421 \mathrm{~mm} / 16.57 \mathrm{in}$ |
| Mounting hole dimensions | $8.3 \mathrm{~mm} / 0.32 \mathrm{in}$ |
| Number of mounting holes | 8 |
| Mounting hole PCD | $443.4 \mathrm{~mm} / 17.46 \mathrm{in}$ |
| Unit weight | $7.5 \mathrm{~kg} / 16.5 \mathrm{lb}$ |
|  |  |
| Parameters |  |
| Sd | $1134.12 \mathrm{~cm} 2 / 175.79 \mathrm{in} 2$ |
| Fs | 35.70 Hz |
| Mms | $179.11 \mathrm{~g} / 6.32 \mathrm{oz}$ |
| Qms | 4.213 |
| Qes | 0.434 |
| Qts | 0.393 |
| Re | $258 \Omega$ |
| Vas | $202.40 \mathrm{l} / 7.15 \mathrm{ft} 3$ |
| Bi | 15.46 Tm |
| Cms | $0.11 \mathrm{~mm} / \mathrm{N}$ |
| Rms | $9.53 \mathrm{~kg} / \mathrm{s}$ |
| Le (at 1 kHz$)$ | 1.28 mH |
| Xmax | $4.5 \mathrm{~mm} / 0.18 \mathrm{in}$ |
|  |  |

## Packed Dimensions \& Weight

| Single pack size W x D x H | $\begin{aligned} & 500 \mathrm{~mm} \times 500 \mathrm{~mm} \times 255 \mathrm{~mm} / 19.7 \mathrm{in} \\ & \times 19.7 \mathrm{in} \times 11.0 \mathrm{in} \end{aligned}$ |
| :---: | :---: |
| Single pack weight | $9.0 \mathrm{~kg} / 19.8 \mathrm{lb}$ |
| Multi pack qty | 24 |
| Multi pack size W x D x H | $\begin{aligned} & 1200 \mathrm{~mm} \times 1000 \mathrm{~mm} \times 980 \mathrm{~mm} / 47.2 \\ & \text { in } \times 39.4 \mathrm{in} \times 38.5 \mathrm{in} \end{aligned}$ |
| Multi pack weight | $205 \mathrm{~kg} / 452 \mathrm{lb}$ |

