

LF Loudspeakers

TSQ2145



21-inch cast aluminium chassis neodymium magnet low frequency loudspeaker

- Advanced temperature control using 3-channel tuned venting system provides highly efficient cooling across the frequency band
- Voice coil typically operates at up to 80°C lower temperature than other leading drivers in this class
- Polysiloxane laminated triple suspension provides much greater stability and improved cone displacement symmetry
- Lead-out wires precision woven into suspension minimises excess motion and reduces fatigue
- Double-sided, weatherproof cone coating enhances durability

3600W

Continuous power rating

97dB

sensitivity

4.5in

Round copper voice coil

General Specifications

| | |
|-------------------------|--|
| Nominal Diameter | 530mm / 21in |
| Power Rating | 1800W |
| Continuous power rating | 3600W |
| Rated impedance | 8 ohm |
| Sensitivity | 97dB |
| Frequency range | 30-1,000Hz |
| Chassis type | Cast aluminium |
| Magnet type | Neodymium |
| Voice coil diameter | 115mm / 4.5in |
| Voice coil material | Round copper |
| Former material | Glass fibre |
| Cone material | Glass loaded cellulose, & water-resistant coating front back |
| Surround material | Triple roll, cloth sealed |
| Suspension | Dual, polysiloxane-laminated |
| Gap height (Hg) | 12mm / 0.46in |
| VC winding height (Hvc) | 36mm / 1.42in |
| Additional impedances | 4 ohm |

Mounting Information

| | |
|---------------------------|---------------------------|
| Overall diameter | 541mm / 21.3in |
| Overall depth | 250mm / 9.84in |
| Cut-out diameter | 505mm / 19.88in |
| Mounting hole dimensions | 8.5x10mm / 0.33x0.39in |
| Number of mounting holes | 8 |
| Mounting hole PCD | 525-528mm / 20.61-20.79in |
| Flange & gasket thickness | 17mm / 0.67in |
| Unit weight | 13.8kg / 30.4lb |

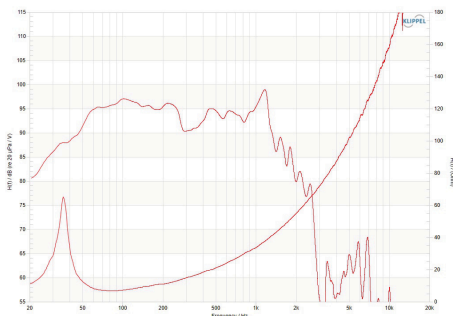
Packed Dimensions & Weight

| | |
|----------------------------|--|
| Single pack size W x D x H | 575mm x 575mm x 280mm / x 22.6in 22.6in x 11in |
| Single pack weight | 14.5kg / 32lb |

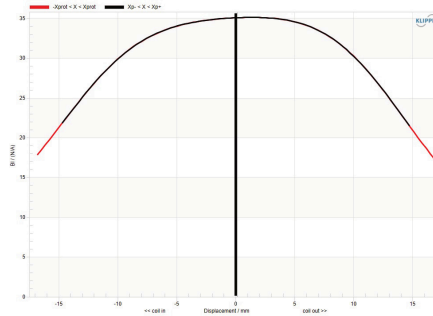
Parameters

| | |
|--------------|--|
| Sd | 1661.9cm ² / 257.9in ² |
| Fs | 30Hz |
| Mms | 435.2g / 15.35oz |
| Qms | 8.393 |
| Qes | 0.359 |
| Qts | 0.344 |
| Re | 5.0 ohm |
| Vas | 253.8l / 8.96ft ³ |
| Bl | 33.8Tm |
| Cms | 0.065mm/N |
| Rms | 9.77kg/s |
| Le (at 1kHz) | 3.91mH |
| Xmax | 15mm / 0.59in |
| Xmech | 80mm / 1.57in |
| Efficiency | 1.9% |

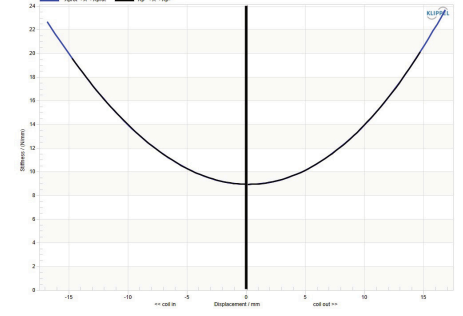
Frequency Response & Impedance



Force Factor Bl Symmetry



Stiffness K Symmetry



Power rating: Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.

Continuous power rating: Defined as 3dB greater than the AES rating.

Sensitivity: Measured on axis at 1W, 1m in 2? anechoic environment.

Parameters: Measured after unit subjected to pre-conditioning signal.

Xmax: 0.5*(Hvc-Hg) + 0.25*Hg

Xmech: Maximum peak-to-peak excursion before damage.