CELESTION

LF Loudspeakers

TSQ1845



18-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 double 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

96.5dB
Sensitivity

4.5in
Round copper voice coil

General Specifications

Power Rating	1800W
Continuous power rating	3600W
Rated impedance	8 ohm
Sensitivity	96.5dB
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
Gap height (Hg)	12mm / 0.46in
VC winding height (Hvc)	36mm / 1.42in

Mounting Information

Overall diameter	460mm / 18.1in
Overall depth	247mm / 9.72in
Cut-out diameter	415mm / 16.33in
Mounting hole dimensions	7x12mm / 0.28x0.47in
Number of mounting holes	8
Mounting hole PCD	431-439mm / 16.97-17.28in
Flange & gasket thickness	13mm / 0.51in
Unit weight	11.8kg / 26lb

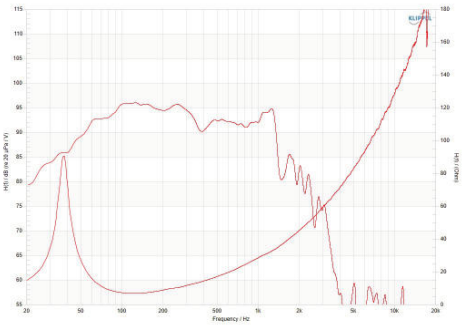
Parameters

Sd	1134cm^2 / 175.8in^2
Fs	35Hz
Mms	316g / 11.18oz
Qms	8.712
Qes	0.300
Qts	0.290
Re	5.0 ohm
Vas	119.3l / 4.21ft^3
Bl	33.8Tm
Cms	0.065mm/N
Rms	7.99kg/s
Le (at 1kHz)	3.06mH
Xmax	15mm / 0.59in
Xmech	40mm / 1.57in
Efficiency	1.8%

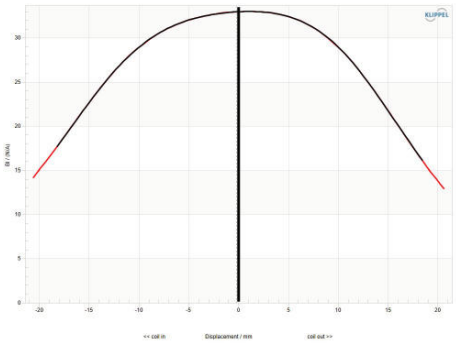
Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 280mm / 19in x 19in x 11in
Single pack weight	12.3kg / 27.1lb

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.

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