CELESTION

LF Loudspeakers

TSQ1545

15-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

96dB
Sensitivity

4.5in
Copper clad aluminium voice coil

General Specifications

Nominal Diameter	381mm / 15in
Power Rating	1800W
Continuous power rating	3600W
Rated impedance	8 ohm
Sensitivity	96dB
Frequency range	38-1,000Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	115mm / 4.5in
Voice coil material	Copper clad aluminium
Former material	Glass Fibre
Cone material	Glass loaded cellulose, water-resistant coating front & back
Surround material	Triple roll, cloth sealed
Suspension	Dual-laminated
Gap height (Hg)	12mm / 0.47in
VC winding height (Hvc)	38mm / 1.5in

Mounting Information

Overall diameter	393mm / 15.5in
Overall depth	210mm / 8.27in
Cut-out diameter	354mm / 13.95in
Mounting hole dimensions	10x7mm / 0.39x0.28in
Number of mounting holes	8
Mounting hole PCD	367-374mm / 14.45-14.72in
Flange & gasket thickness	11.9mm / 0.47in
Unit weight	11.35kg / 25lb

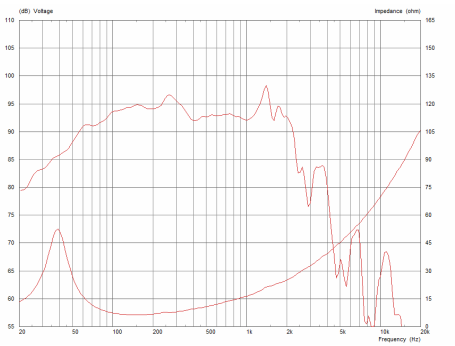
Parameters

Sd	855.3cm^2 / 132.57in^2
Fs	39Hz
Mms	187.8g/6.42oz
Qms	5.612
Qes	0.372
Qts	0.349
Re	5.05 ohm
Vas	92.03l / 3.26ft^3
Bl	25Tm
Cms	0.88mm/N
Rms	8.19kg/s
Le (at 1kHz)	1.83mH
Xmax	16mm / 0.63in
Xmech	76mm / 3in
Efficiency	1.5%

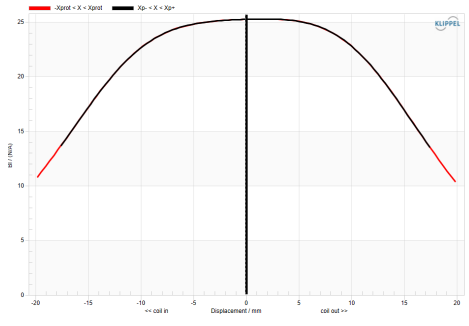
Packed Dimensions & Weight

Single pack size W x D x H	435mm x 435mm x 235mm / 17.13in x 17.13in x 9.25in
Single pack weight	12kg / 26.2lb

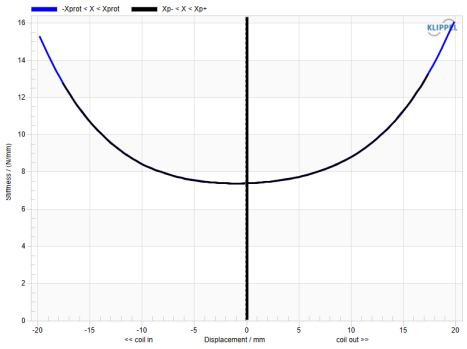
Frequency Response & Impedance



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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