CELESTION

LF Loudspeakers

TSQ1535

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 30°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

1800W
Continuous power rating

98.2dB
Sensitivity

3.5in
Copper clad aluminium voice coil

General Specifications

Power Rating	900W
Continuous power rating	1800W
Rated impedance	8 ohm
Sensitivity	98.2dB
Frequency range	45-3000Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	90mm / 3.5in
Voice coil material	Copper clad aluminium
Former material	Glass fibre
Cone material	Glass loaded cellulose
Surround material	Triple roll, cloth sealed
Gap height (Hg)	10mm / 0.39in
VC winding height (Hvc)	21mm / 0.83in

Mounting Information

Overall diameter	392.7mm / 15.46in
Overall depth	173.6mm / 6.83in
Cut-out diameter	357mm / 14in
Mounting hole dimensions	10.5x7mm / 0.41x0.28in
Number of mounting holes	8
Mounting hole PCD	367-374mm / 14.4-14.72in
Flange & gasket thickness	12mm / 0.47in
Unit weight	5.7kg / 12.6lb

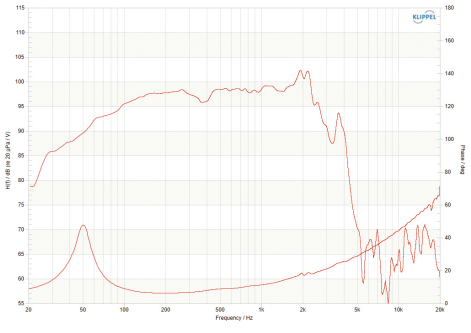
Parameters

Sd	855.3cm^2 / 33.7in^2
Fs	50Hz
Mms	111.9g / 3.95oz
Qms	4.921
Qes	0.432
Qts	0.397
Re	5.2 ohm
Vas	94.02l / 3.32ft^3
Bl	20.65Tm
Cms	0.091mm/N
Rms	7.148kg/s
Le (at 1kHz)	0.884mH
Xmax	8mm / 0.31in
Xmech	22mm / 0.87in

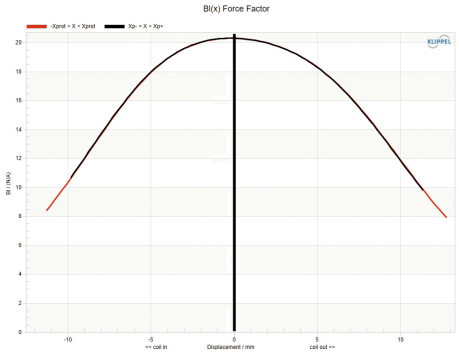
Packed Dimensions & Weight

Single pack size W x D x H	435mm x 435mm x 200mm / 17.1in x 17.1in x 7.9in
Single pack weight	7kg / 15.4lb

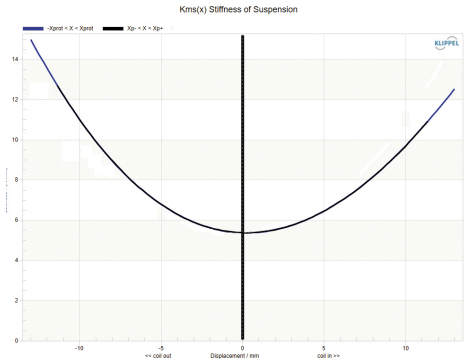
Frequency Response & Impedance



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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