CELESTION

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

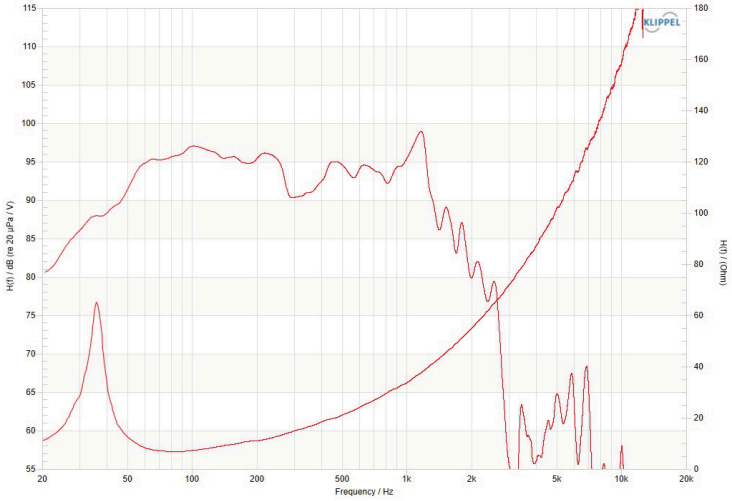
General Specifications

Nominal Diameter	530mm / 21in
Power Rating	1800W
Continuous power rating	3600W
Rated impedance	4 Ω 8 Ω
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	Triple, polysiloxane-laminated
Gap height (Hg)	12mm / 0.46in
VC winding height (Hvc)	36mm / 1.42in

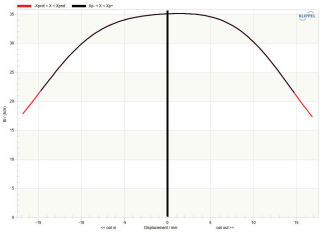
Mounting Information

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

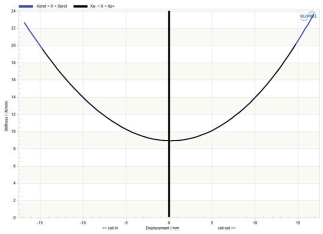
Frequency response and impedance



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.

Parameters

Sd	1661.9cm2 / 257.9in^2
Fs	30Hz
Mms	435.2g / 15.35oz
Qms	8.393
Qes	0.359
Qts	0.344
Re	5.0 Ω
Vas	253.8l / 8.96ft ^{3}
Bi	33.8Tm
Cms	0.065mm/N
Rms	9.77kg/s
Le (at 1kHz)	3.91mH
Xmax	15mm / 0.59in
Xmech	40mm / 1.57in
Efficiency	1.9%

Packed Dimensions & Weight

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

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