CELESTION

LF Loudspeakers

TSQ2460-4



24-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

5000W
Continuous power rating

98dB
Sensitivity

6in
Round copper voice coil

General Specifications

Power Rating	2500W
Continuous power rating	5000W
Rated impedance	4 ohm
Sensitivity	98dB
Frequency range	20-200Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	152mm / 6in
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)	15mm / 0.59in
VC winding height (Hvc)	45mm / 1.77in

Mounting Information

Overall diameter	627mm / 24.7in
Overall depth	280mm / 11in
Cut-out diameter	573mm / 22.5in
Mounting hole dimensions	8.5x9mm / 0.33x0.35in
Number of mounting holes	8
Mounting hole PCD	596.3-606mm / 23.47-23.86in
Flange & gasket thickness	21mm / 0.83in
Unit weight	22kg / 48lb

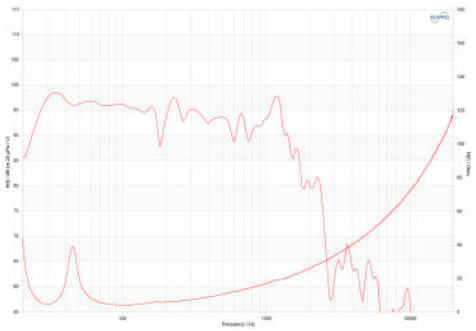
Packed Dimensions & Weight

Single pack size W x D x H	745mm x 745mm x 415mm / 29.3in x 29.3in x 16.3in
Single pack weight	27kg / 59.5lb

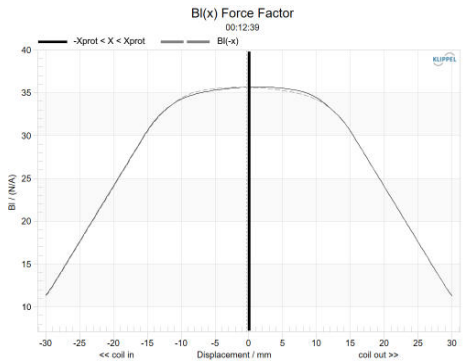
Parameters

Sd	2239cm^2 / 347in^2
Fs	27Hz
Mms	717.2g / 25.3oz
Qms	10.89
Qes	0.312
Qts	0.303
Re	3.17 ohm
Vas	344.5l / 12.17ft^3
Bl	35.23Tm
Cms	0.048mm/N
Rms	11.089kg/s
Le (at 1kHz)	2.05mH
Xmax	18.75mm / 0.73in
Xmech	74mm / 2.91in
Efficiency	2%

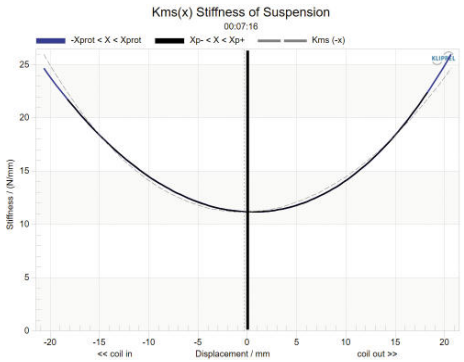
Frequency Response & Impedance



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: 383 litre ported cabinet tuned to 29 Hz, measured on axis at 1W, 1m in 2? anechoic environment.
Parameters: Measured after unit subjected to pre-conditioning signal. 4? parameters shown.
Xmax: 0.5*(Hvc-Hg) + 0.25*Hg
Xmech: Maximum peak-to-peak excursion before damage.

CELESTION

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom