

# 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
Ali> Voice coil typically operates at 30°C lower temperature than other leading drivers in this class
Ali> Polysiloxane laminated double suspension provides much greater stability and improved cone displacement symmetry
Ali> Lead-out wires precision woven into suspension minimises excess motion and reduces fatigue
Ali> Double-sided, weatherproof cone coating enhances durability
Ali> Effatures
Arref="https://celestion.com/ten-key-">href="https:/

/">See Ten Squared Technologies</a>

### **General Specifications**

**Nominal Diameter** 457mm / 18in **Power Rating** 1800W Continuous power rating 3600W 8Ω Rated impedance 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 cellulo se, water-resistant

coating front & back

Surround material Triple roll, cloth s

ealed

Suspension Dual, polysiloxane-l

aminated

Gap height (Hg) 12mm / 0.46in VC winding height (Hvc) 36mm / 1.42in

## **Mounting Information**

Overall diameter 460mm / 18.1in

Overall depth 235mm / 9.5in

Cut-out diameter 414mm / 16.29in

Mounting hole dimensions 7x11mm / 0.28x0.43in

Number of mounting holes 8

or or mounting notes

Mounting hole PCD 432-441mm / 17.04-17

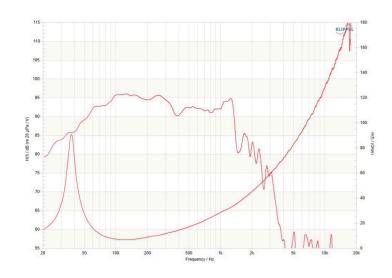
.36in

Flange & gasket thickness

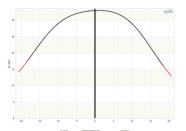
Unit weight

17mm / 0.67in 11.8kg / 26lb

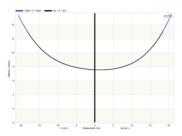
#### Frequency response and impedance



## Force factor (BI) symmetry



### Stiffness (K) symmetry



#### **Parameters**

 Sd
 1134cm2 / 175.8in2

 Fs
 35Hz

 Mms
 316g / 11.18oz

 Qms
 8.712

 Qes
 0.300

 Qts
 0.290

 Re
 50 Ω

Vas 119.3I / 4.21ft 3

 Bi
 33.8Tm

 Cms
 0.065mm/N

 Rms
 7.99kg/s

 Le (at 1kHz)
 3.06mH

 Xmax
 15mm / 0.47in

 Xmech
 40mm / 1.57in

Efficiency 1.8%

### **Packed Dimensions & Weight**

Single pack size W x D x H 500mm x 500mm x 280m

m / 19in x 19in x 11

in

Single pack weight 12.3kg / 27.1lb

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.

