

## 12-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

**1400W**  
Continuous  
power rating

**98dB**  
sensitivity

**3in**  
Copper clad  
aluminium coil  
voice



### General Specifications

Nominal Diameter	305mm / 12in
Power Rating	700W
Continuous power rating	1400W
Rated impedance	8 ohm
Sensitivity	98dB
Frequency range	50-3000Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	75mm / 3in
Voice coil material	Copper clad aluminium
Former material	Glass fibre
Cone material	Glass loaded cellulose
Surround material	Triple roll, cloth sealed
Suspension	Single
Gap height (Hg)	10mm / 0.39in
VC winding height (Hvc)	18.5mm / 0.73in

### Mounting Information

Overall diameter	315mm / 12.4in
Overall depth	144.9mm / 5.73in
Cut-out diameter	282mm / 11.1in
Mounting hole dimensions	10x6.5mm / 0.39x0.26in
Number of mounting holes	8
Mounting hole PCD	294-300mm / 11.6-11.8in
Flange & gasket thickness	10.4mm / 0.41in
Unit weight	4.9kg / 10.8lb

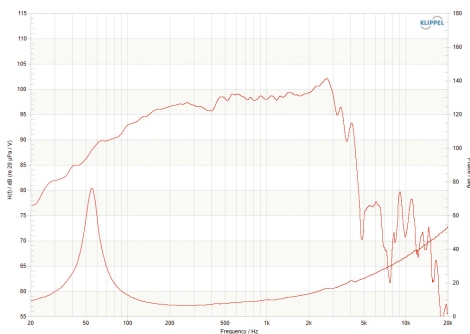
### Packed Dimensions & Weight

Single pack size W x D x H	350mm x 350mm x 180mm / x 13.8in 13.8in x 7.1in
Single pack weight	5.8kg / 12.8lb

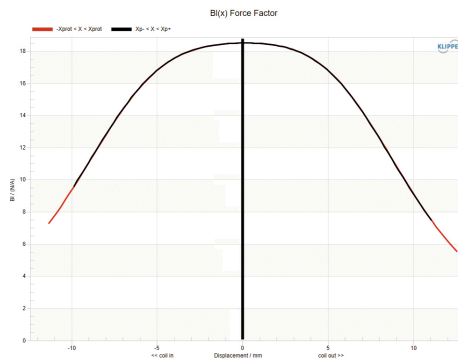
### Parameters

Sd	530.93cm <sup>2</sup> / 82.29in <sup>2</sup>
Fs	55Hz
Mms	69.5g / 2.45oz
Qms	8.11
Qes	0.315
Qts	0.303
Re	5.2 ohm
Vas	45.2l / 1.6ft <sup>3</sup>
Bl	20.5Tm
Cms	0.11mm/N
Rms	3.05kg/s
Le (at 1kHz)	0.72mH
Xmax	6.75mm / 0.27in
Xmech	16mm / 0.63in

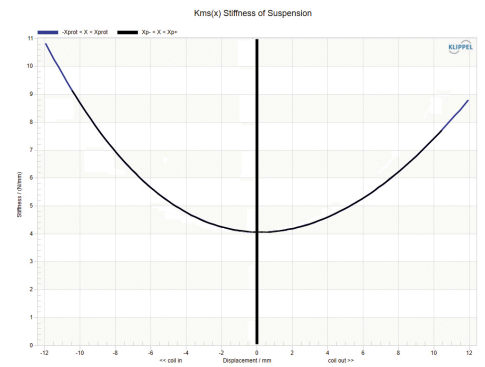
### Frequency Response & Impedance



### 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:**  $0.5 \cdot (Hvc-Hg) + 0.25 \cdot Hg$

**Xmech:** Maximum peak-to-peak excursion before damage.