

12TBX100

LF Drivers - 12.0 Inches

2000 W continuous program power capacity
 100 mm (4 in) copper voice coil
 45 - 1000 Hz response
 95 dB sensitivity

Aluminium demodulating ring allows a very low distortion figure
 Double silicone spider with optimized compliance
 Ventilated voice coil gap for reduced power compression



Specifications

Nominal diameter	320 mm (12.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.3 Ω
Nominal power handling ¹	1000 W
Continuous power handling ²	2000 W
Sensitivity (1W/1m) ³	95.0 dB
Frequency range	45 - 1500 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	25 mm (1.0 in)
Magnetic gap depth	12 mm (0.5 in)
Flux density	1.1 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Ceramic

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	40.0 dm ³ (1.41 ft ³)
Recommended tuning	43 Hz

Parameters⁴

Fs	42 Hz
Re	5.1 Ω
Qes	0.27
Qms	6.9
Qts	0.26
Vas	37.5 dm ³ (1.3 ft ³)
Sd	531.0 cm ² (82.0 in ²)
η _o	1.15 %
X _{max}	9.0 mm
X _{var}	11.0 mm
M _{ms}	119 g
Bl	25.5 Txm

Parameters

Le	1.6 mH
EBP	155 Hz

Mounting And Shipping Info

Overall diameter	319 mm (12.5 in)
Bolt circle diameter	299 mm (11.8 in)
Baffle cutout diameter	281.0 mm (11.1 in)
Depth	135 mm (5.3 in)
Flange and gasket thickness	13 mm (0.5 in)
Air volume occupied by driver	4.2 dm ³ (0.15 ft ³)
Net weight	11.8 kg (26.0 lb)
Shipping weight	12.4 kg (27.3 lb)
Shipping box	340x340x170 mm (13.4x13.4x6.7 in)

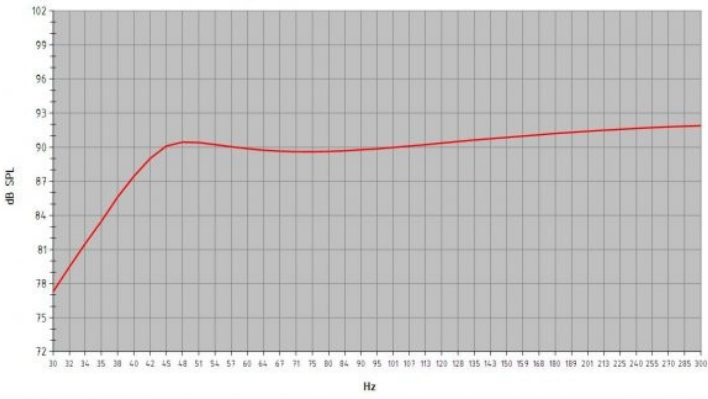
Service Kit

RCK12TBX1008

1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
 2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
 4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Frequency Response (2,83 Vrms/1 m)



Model: **12 TBX 100**
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **40**
Tuning Frequency (Hz): **43** Port Area (cm²): **138.7**
Frequency (-3 dB) (Hz): **43.0** Port Length (cm): **45.0**

Excursion Limited Maximum SPL at 1 meter (dB): **117.9** equal to **425.6** Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB): **121.6** equal to **1000.0** Watts (Mid Band Power Rating)