

Oberton 18XB1500v2

NEW 18" Woofer, 4.5" voice coil, 1500 W, for horn application



KEY FEATURES:

- 115 mm (4.5") high temperature sandwich voice coil
- 3000 W AES program power
- Powerful, vented 245 mm magnet structure
- Double aluminium demodulating ring for lower distortion and improved heat dissipation
- Double silicone spider assembly for improved excursion control and linearity
- Water protected cone with carbon fibers
- Epoxy anti-corrosion coating of top and back plates of the magnet structure

PART NUMBER: 11118F1108

Application : Power bass

The **18XB1500v2** ferrite bass loudspeaker is specially designed for horn application to deliver very high impact bass response, with exceptional high power capacity. It incorporates an 4.5" sandwich voice coil, double silicone spider assembly, paper cone with carbon fibers and die cast vented aluminium frame. Powerful, vented magnetic structure with double demodulating rings reduced power compression. The top and back plates are treated with special high quality epoxy electro-deposition coating, which extremely improves the corrosion resistance of the speaker. The result is high efficient transducer for bass horn applications, with the ability to handle high excursion with low distortion and reduced thermal power compression.

SPECIFICATIONS

Nominal Diameter	187461 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.18 Ohm
Power Capacity AES ¹	1500 W
Program Power ²	3000 W
Sensitivity	depends on the horn
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	115 mm (4.5")
Voice Coil Material	Copper
Voice Coil Former	Glassfiber

V.C. Winding Depth	29 mm
Magnet Gap Depth	14 mm
Cone Material	paper with carbon fibers
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.10 T

THIELE-SMALL PARAMETERS

Fs	35.80 Hz
Qms	10.52
Qes	0.229
Qts	0.225
Vas	192.5 Litres
Mms	212 grams
Re	5.28 Ohms
Sd	1158 cm ²
Xmax*	± 11 mm
Cms	0.112 mm/N
BL	31.58 T.m
Le at 1kHz	1.53 mH

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.

MOUNTING INFORMATION

Overall Diameter	462 mm
Baffle Hole Diameter	410 mm
Mounting Holes	8 elliptic 7 x 8,5 mm
Bolt Circle Diameter	441 mm
Overall Depth	207.5 mm
Net Weight	18.20 kg

RECONE KIT:

RK18XB1500v2 - Part No:R1118F1108