

## 18" - Bass Driver

## Pro PA Range

### Applications: Bass in PA Systems

- 750 Watt (AES)
- Exceptionally Low Power Compression
- 18" Radial Chassis
- Optimised For Reflex Enclosures
- 4" Voice Coil
- Net Weight: 17 Kgs



The RV4504 features three cooling systems. In addition to the usual vented magnet it uses the patented Radial chassis, which acts as a giant heatsink, plus a multi-finned magnet intercooler. This keeps voice coil temperatures exceptionally low resulting in 3dB less power compression and tight, clean bass after prolonged operation at maximum power. A rugged voice coil able to accept high power transients coupled with lower operating temperatures means greater reliability and a long working life. The RV4504 has double rear suspensions, special rubber surround, carbon fibre reinforced cone and a symmetrical field magnet for absolute linearity and transient control on high power peak inputs. Maximum damage limited cone excursion is 50 mm (2"). The RV4504 is a unique loudspeaker that uses Radial Technology and is optimised for ultimate bass reflex system performance.

#### Specifications

Nominal Diameter	450 mm
Power Rating	750 Watts
Sensitivity (1w / 1m)	96 dB
Frequency Range	30 - 600Hz
Nominal Impedance	4 or 8 ohms
BL Factor	25 N/A
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Maximum Excursion	50 mm (peak to peak)
Magnetic Assembly Weight	11.5 Kgs
Effective Moving Mass	0.16 Kgs
Compliance	0.00011 M/N
Volume Displacement	13 Litres
Connection	Metal Push Terminals
Chassis	Diecast Aluminium

#### Thiele-Small Parameters

Fs	38 Hz
Re	5.5 Ohms
Qa	4.09
Qe	0.34
Qt	0.31
Vas	164 Litres
Xmax	±10 mm
Sd	1029 cm <sup>2</sup>
Vd	1029 cm <sup>3</sup>
Le	2.9 mH

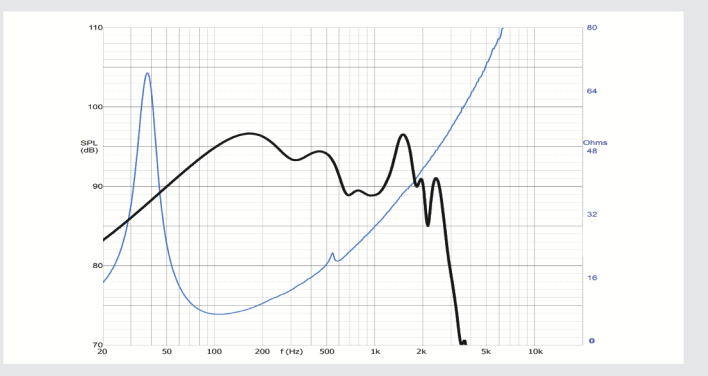
#### Mounting Information

Overall Diameter	459 mm
Fixing Bolt Diameter	440 mm
Fixing Holes	8 x M6
Front Mount Cut-out Diameter	417 mm
Suggested Rebate Depth	14 mm
Depth Below Front Flange	215 mm
Total Depth	229 mm
Weight	17 Kgs

#### Suggested Enclosures

Volume in Litres	100	150	180
Vent diameter in Cm	4x10	4x10	4x10
Vent length in Cm	32	29	31
System Q	10	10	10
-3dB Freq in Hz	45	38	34

#### Response Curve



#### Dimensions

