

15 PT 1500 MB

SWETON®



15 PT 1500 MB is a high-powered 15-inch mid-bass loudspeaker equipped with a robust 4.5-inch voice coil, designed to deliver impactful punch, wide dynamic range, and exceptional thermal handling. Developed using advanced Klippel Analyzer Systems and precision-tuned through CLIO measurement systems, this transducer combines sheer power with refined acoustic detail, making it the perfect choice for large-scale sound reinforcement applications.

Recommended Enclosure:

Type	Volume	Port Specs
Vented	120–140 Litre	4" dia X 120 mm length (dual ports preferred)
Tuning	~45–50 Hz	Ensures extended low-end response without sacrificing punch

Crossover Recommendations:

Driver Type	Frequency Range	Slope
LPF for 15 PT 1500 MB	80 Hz – 3.2 kHz	12 or 18 dB/octave
HPF for HF Driver	1.8 – 2.0 kHz	18 dB/octave or higher

- ✓ A slight overlap between 1.8 to 3.2 kHz allows smoother blending when paired with quality HF drivers

Recommended HF Driver:

Parameter	Recommendation
Power Handling	100–120 W AES
Sensitivity	107–110 dB SPL
Exit Size	1.4-inch compression driver
Diaphragm Type	Titanium preferred

Applications:

- High-SPL PA systems for festivals, DJs, processions
- Mid-bass cabinets in 3-way active systems
- High-power monitor wedges
- Portable and install sound reinforcement

Why Choose 15 PT 1500 MB?

- ✓ **Built for Brutal Power:** 1500W AES power handling and 4.5-inch coil ensures it can take on intense SPL environments with ease.
- ✓ **High Xmax & BL:** Delivers strong motor control and deep punch without breakup.
- ✓ **Precision Engineering:** Designed with Klippel and CLIO systems, ensuring tight QC and optimized performance.
- ✓ **Ideal Frequency Spread:** Covers the full mid-bass spectrum with clarity and power.
- ✓ **Flexible Integration:** Works effortlessly in large 2-way or 3-way PA systems.

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	390 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	1500 W
Program Power	3000 W
Sensitivity (1W/1m)	92 dB
Frequency Range	45-4500 Hz
Magnet Material	Ferrite
Voice Coil Diameter	114 mm (4.5 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	In/Out

Mounting Info

Overall Diameter	390 mm
Bolt Circle Diameter	374 mm
Baffle Cutout Diameter	356 mm
Depth	155 mm
Flange and Gasket Thickness	15.5 mm
Gross Weight	15.50 Kgs

Parameters

Resonant Frequency	Fs	43 Hz
DC Resistance	Re	5.75 Ω
Electrical Q	Qes	0.58
Mechanical Q	Qms	14.72
Total Q	Qts	0.56
Compliance Equivalent Volume	Vas	77.70 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.64 Ltrs
Effective Surface Area of Cone	Sd	865.70 cm ²
Reference Efficiency	η_0	1.04%
Moving Mass including air load	Mms	183.90 gms
Motor Strength	Bl	22.32 T-m
Voice Coil Inductance	Le	1.36 mH
Efficiency Bandwidth Product	EBP	74 Hz
Voice Coil Overhang	Xmax	± 7.35 mm

Recone Kit

Recone Kit Number	REC15PT1500MB
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Z(f,x=0) Impedance

