

15 PT 600 MB

SWETON®



15 PT 600 MB – Precision Mid-Bass Powerhouse

The **15 PT 600 MB** is a high-performance 15-inch mid-bass loudspeaker engineered for tight, punchy low-end and smooth vocal clarity. Featuring a 4-inch high-temperature voice coil, powerful BI of 23.23N/A, and 918.63 cm² cone area, it's built to deliver impactful output with excellent linearity and control.

Designed using Klippel Analyzer System and validated with CLIO 12.5, this transducer is precision-calibrated to handle real-world conditions with minimal distortion. Its frequency range of 55 Hz to 3.5 kHz makes it ideal for mid-bass applications in professional audio systems, DJ setups, and PA installations.

Whether used in vented enclosures or multi-way cabinets, the 15PT600 MB maintains high efficiency (2.69%) and impressive thermal stability, ensuring clean output even under sustained high power.

Recommended Enclosure Design

Type	Volume (Net)	Port Size (mm)	Tuning Freq
Vented	100 – 120 L	150mm Ø x 120mm depth	~50 Hz

Recommended HF Driver

Parameter	Recommendation
Power Rating	80 –100W AES
Sensitivity	105–110 dB SPL
Diaphragm Type	Preferred Titanium diaphragm
Exit Size	1" or 1.4" compression driver

Crossover Recommendation:

Section	Frequency Point	Slope
Low Pass	2.8 – 3.2 kHz	12 dB/oct (2nd order)
High Pass	1.6 – 1.8 kHz	12 dB/oct or 18 dB/oct

Applications:

- Mid-bass section in 3-way systems
- Outdoor DJ setups and event sound reinforcement
- Bass guitar cabinets and floor monitors
- High-performance vocal/ mid-bass reinforcement

Why Choose 15PT600 MB

1. **✓ Powerful Performance**
With a 4-inch voice coil and high BI value (23.23 N/A), this driver offers superior control and punch in the low-mid frequencies.
2. **✓ Wide & Flat Response**
The response from 60 Hz to 1.8 kHz is very flat, ensuring natural and tight mid-bass, perfect for vocals and percussion.
3. **✓ Precision Engineering**
Designed and tested using Klippel Analyzer System and CLIO 12.5, ensuring world-class accuracy and consistency in manufacturing.
4. **✓ Reliable Under Load**
Minimal distortion from motor (Dbl 5.8%) and suspension (Dk 5.3%) make it clean even at high SPL.

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	388 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	600 W
Program Power	1200 W
Sensitivity (1W/1m)	96 dB
Frequency Range	55-3500 Hz
Magnet Material	Ferrite
Voice Coil Diameter	99.3 mm (4 in)
Winding Material	CCAR
Former Material	GLASS FIBRE
Winding Type	OUTSIDE

Mounting Info

Overall Diameter	388 mm
Bolt Circle Diameter	373 mm
Baffle Cutout Diameter	358 mm
Depth	151 mm
Flange and Gasket Thickness	13 mm
Gross Weight	12.85 Kgs

Parameters

Resonant Frequency	Fs	57 Hz
DC Resistance	Re	5.4 Ω
Electrical Q	Qes	0.46
Mechanical Q	Qms	13.27
Total Q	Qts	0.45
Compliance Equivalent Volume	Vas	71.70 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.41 Ltrs
Effective Surface Area of Cone	Sd	918.63 cm ²
Reference Efficiency	η_0	2.69%
Moving Mass including air load	Mms	130.60 gms
Motor Strength	Bl	23.23 T-m
Voice Coil Inductance	Le	0.53 mH
Efficiency Bandwidth Product	EBP	124 Hz
Voice Coil Overhang	Xmax	± 4.0 mm

Recone Kit

Recone Kit Number	REC15PT600MB
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$Z(f, x=0)$ Impedance

