

15 PT 1000 MB[3.0]

SWETON®



15 PT 1000 [3.0] is a high-performance 15-inch mid-bass driver engineered for demanding low-frequency applications such as stage monitors, roadshows, and PA bass bins. With a robust 4-inch voice coil, extended Xmax of 6.2 mm, and efficient motor system delivering a sensitivity of 95 dB SPL, it delivers powerful and controlled bass.

The optimized suspension and motor structure ensures minimal distortion, even under high excursion. Designed with precision using Klippel Analyzer System and validated with CLIO 12.5, it ensures performance consistency and tonal accuracy. Ideal for use in vented enclosures tuned between 50–60 Hz, and pairs well with a HF compression driver crossed over at 1.5–1.6 kHz.

Recommended Specs for Enclosure

Parameter	Value
Enclosure Type	Vented / Bass Reflex
Volume	110–130 liters
Tuning Frequency	~50–55 Hz
Port Size (Example)	4" (dual) 20 cm length

Crossover Recommendation

Filter Type	Frequency	Slope
LPF	1.5–1.6 kHz	18 dB/oct
HPF (HF driver)	1.6 kHz	12–18 dB/oct

Applications:

- Stage and floor monitors
- DJ systems and PA cabinets
- Bins for festivals and processions
- Mid-bass support for subwoofer systems

Why Choose 15 PT 1000 3.0

- High sensitivity (95 dB) long throw
- Wide usable range: 45 Hz – 3.2 kHz
- Built for power: 6.2 mm Xmax with 1000W AES handling
- Engineered and verified using Klippel + CLIO 12.5
- Balanced distortion profile and thermal resilience

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	405 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	1000 W
Program Power	2000 W
Sensitivity (1W/1m)	95 dB
Frequency Range	45-3200 Hz
Magnet Material	Ferrite
Voice Coil Diameter	99.3 mm (4 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	IN/OUT

Mounting Info

Overall Diameter	405 mm
Bolt Circle Diameter	381 mm
Baffle Cutout Diameter	361 mm
Depth	178 mm
Flange and Gasket Thickness	14 mm
Gross Weight	14.40 Kgs

Parameters

Resonant Frequency	Fs	45 Hz
DC Resistance	Re	6.75 Ω
Electrical Q	Qes	0.37
Mechanical Q	Qms	15.18
Total Q	Qts	0.36
Compliance Equivalent Volume	Vas	92.10 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.41 Ltrs
Effective Surface Area of Cone	Sd	876.16 cm ²
Reference Efficiency	η_0	2.14%
Moving Mass including air load	Mms	148.20 gms
Motor Strength	Bl	27.56 T-m
Voice Coil Inductance	Le	1.02 mH
Efficiency Bandwidth Product	EBP	122 Hz
Voice Coil Overhang	Xmax	± 6.2 mm

Recone Kit

Recone Kit Number	REC15PT1000MB[3.0]
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Z(f,x=0) Impedance

