

18 PT 2000 SUB

SWETON®



18 PT 2000 SUB – “BASS KA BAAP”

Engineered for monstrous low-end power, the 18 PT 2000 SUB is SWETON's flagship 18-inch subwoofer, featuring a massive 6-inch voice coil and capable of handling 2000 watts AES power with authority. Designed for deep punch, long excursion, and relentless output, this subwoofer is made to move air—whether on DJ gigs, processions, or large PA setups.

Despite having a higher resonance frequency (F_s) of 51 Hz, the 18 PT 2000 SUB performs like a beast in Indian conditions. In India's outdoor, high-humidity, and power-fluctuating gig environments—where bass reinforcement happens above 45–50 Hz—this driver ensures tighter control, lower cone overhang, and quicker response without sacrificing punch. Higher F_s gives this driver better mechanical stability and efficiency in high SPL applications common in roadshows and festival use.

Enclosure Recommendations:

Type	Volume (Net)	Port Specs / Tuning
Vented Box	145–160 L	Port $\varnothing 6'' \times 10''$ tuned to ~40 Hz
4th Order Bandpass	Front: 80 L Rear: 90 L	Ported front chamber tuned to 50 Hz
6th Order Bandpass	Front: 70 L Rear: 110 L	Rear port tuned to 38 Hz Front port tuned to 65 Hz

💡 Note: Bandpass designs provide more output efficiency, ideal for DJs and mobile setups needing heavy thump..

HF Driver Recommendation (if used with a crossover)

HF Driver Type	Spec
Compression Driver	1.4" titanium diaphragm, 100W AES
SPL Sensitivity	110–112 dB

Crossover Recommendations:

Filter Type	Frequency Point	Slope
LPF (for 18 PT 2000 SUB)	80 – 100 Hz	24 dB/oct (Butterworth or LR4)
HPF (for Subwoofer)	35 – 40 Hz	18–24 dB/oct to protect from over-excursion
HPF (for HF driver)	1.5 – 1.8 kHz	24 dB/oct if paired with mid driver

Applications:

- DJ Systems and Mobile DJ Vans
- Festival and Procession Rigs
- Roadshows and Outdoor PA
- Touring Concert Subwoofers
- High-SPL Bass Reflex and Bandpass Designs

Why Choose 18 PT 2000 SUB?

- Massive 6-inch coil: Handles power, heat, and excursion with ease.
- High BL (37.88) ensures tight magnetic control.
- Deep excursion (± 12.10 mm) gives real chest-thumping bass.
- Optimized for Indian gig conditions – robust, efficient, and durable.
- Bandpass box compatible for boosted output.
- True to its title – “BASS KA BAAP” – unmatched impact and low-end presence in its class.

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	464 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	2000 W
Program Power	4000 W
Sensitivity (1W/1m)	94 dB
Frequency Range	50-1600 Hz
Magnet Material	Ferrite
Voice Coil Diameter	152 mm (6.0 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	In/Out

Mounting Info

Overall Diameter	464 mm
Bolt Circle Diameter	445 mm
Baffle Cutout Diameter	420 mm
Depth	214 mm
Flange and Gasket Thickness	16 mm
Gross Weight	48 Kgs

Parameters

Resonant Frequency	Fs	51 Hz
DC Resistance	Re	6.09 Ω
Electrical Q	Qes	0.47
Mechanical Q	Qms	13.98
Total Q	Qts	0.45
Compliance Equivalent Volume	Vas	61.29 Ltrs
Peak Diaphragm Displacement Volume	Vd	3.01 Ltrs
Effective Surface Area of Cone	Sd	1237.86 cm ²
Reference Efficiency	η_0	1.63%
Moving Mass including air load	Mms	347 gms
Motor Strength	Bl	37.88 T-m
Voice Coil Inductance	Le	1.27 mH
Efficiency Bandwidth Product	EBP	108 Hz
Voice Coil Overhang	Xmax	± 12.10 mm

Recone Kit

Recone Kit Number	REC18PT2000SUB
-------------------	----------------

Z(f,x=0) Impedance

