

BS 402

Reference Series

The BS 402 Reference Series combines a carefully engineered Class-AB topology with premium passive and semiconductor components, wide frequency response and a robust power supply to deliver natural, high-resolution and long-term stable sound performance. With its compact chassis design and wide impedance compatibility, it offers flexible and safe integration in a variety of in-car setups, from hi-fi-focused systems to powerful everyday installations.



Superior Sound Performance

Developed after extensive R&D, the BS Reference Series is designed using top-tier passive and semiconductor components from leading manufacturers. It delivers a natural and pure sound experience with low noise, high resolution and a long-lasting, stable structure.



Class-AB Amplifier Topology

The Class-AB architecture combines the natural character of Class A with the efficiency of Class B, providing wide dynamic range, high control, low distortion and a natural tonal balance. High-capacity capacitors used in the power supply support sudden current demands, maximizing overall system stability and efficiency.



Wide Frequency Response

With a wide frequency range from 8 Hz up to 54,000 Hz, the amplifier reproduces the entire musical signal – from the deepest bass to the highest treble – accurately and completely, remaining faithful to the original source.



Ultra-Low Distortion

Thanks to its extremely low total harmonic distortion, the amplifier offers a clean, smooth and non-fatiguing listening experience, even at medium and high volume levels.

Wide Impedance Compatibility

Supporting speaker impedances from a minimum of 2 Ohms up to 8 Ohms, the BS 402 Reference Series allows flexible and safe installation in both active/coaxial and passive system configurations.

Gold-Plated RCA Terminals

Gold-plated RCA connections provide low contact resistance and high conductivity, minimizing signal loss. Their resistance to oxidation ensures stable long-term performance.

Precise Gain Control

With dedicated GAIN and level controls, you can precisely match the amplifier to your speaker and source combination, ensuring safe operation and optimum performance of the system.

Powerful PWM for Accurate Voltage Regulation

The robust PWM structure used in the power stage keeps the supply voltage tightly controlled, even under fluctuations in the vehicle's electrical system. This results in stable, safe and consistent performance under varying operating conditions.

Matched Dual Transistors for Accurate Signal Processing

In the signal and driver stages, matched dual transistor configurations are used to improve channel linearity and symmetry. This reduces distortion, increases signal-processing accuracy and allows the amplifier to drive demanding loads with authority and control.

High-Current, Long-Life Capacitors

High-current, long-life capacitors from upper series lines are used in the power supply to support sudden current demands and enhance stability. This design ensures long-term reliability and consistent sonic performance under real-world automotive conditions.



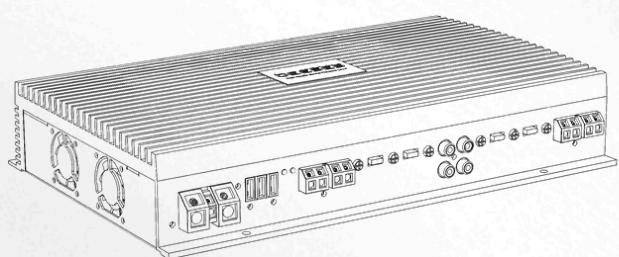
70-Micron Copper Traces for Optimized Power and Signal Transfer

The PCB utilizes 70-micron-thick copper traces, providing low resistance and low loss on both power and signal paths. This optimizes current delivery, supports dynamic performance even under high current draw and helps reduce heat buildup.

Compact Chassis Design

The precisely CNC-machined compact aluminum chassis is designed to occupy minimal space inside the vehicle, while its clean and elegant lines aesthetically complement modern car interiors. It offers both mechanical robustness and efficient heat dissipation.

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Channel	4
Class	Class-AB
Voltage Range	10.5-18 volt
Idle current	1.00 amper
Maximum Current	90 amper
Power	4x124 watt @ 4 Ω (THD+N %1.0) 4x230 watt @ 2 Ω (THD+N %1.0)
S/N Ratio	105
Damping	400
THD+N	% 0.015 (10 W) % 0.024 (%90 power)
Frequency Range	8-54.000 Hz
Input Sensitivity	0.3-8 volt
Input Impedance	22 KΩ
Input Technology	Jfet
Output Technology	Infineon mosfet
PWM Technology	IR mosfet, Cosmo toroidal,
Crossover	Low pass- Band pass-High pass (32Hz-4Khz)
Dimensions (HxWxD)	62x216x330 mm
Weight	4250 gr
Producing Country	Türkiye