

audio technologies BEESES

BS-O 101



The BS-O series is designed to deliver a powerful and impressive sound experience through high-quality passive and semiconductor components, along with an innovative design philosophy. With wide frequency response, low distortion, and high efficiency, it integrates seamlessly into in-car audio systems. Its compact structure allows for easy installation in various setup scenarios.



Superior Sound Performance

Designed using the highest quality passive and semiconductor components from leading manufacturers, the BS-O Series offers a natural and pure sound experience with low noise, high resolution, and long-lasting durability.



Class AB (Bias A) Amplifier Topology

The Class AB (Bias A) architecture combines the naturalness of Class A with the efficiency of Class B, providing high control, low distortion, and natural tonal balance across a wide dynamic range. High-capacity capacitors in the power supply meet sudden current demands, maximizing system stability and efficiency.



Wide Frequency Response

With a frequency range extending from 8 Hz to 54,000 Hz, the BS-O Series accurately reproduces all musical details from the lowest bass to the highest treble, ensuring fidelity to the original source.

Ultra-Low Distortion

Thanks to its extremely low total harmonic distortion, the amplifier delivers 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 to a maximum of 8 Ohms, the BS-O Series provides flexible and safe installation options for both active/coaxial and passive system configurations.

Gold-Plated RCA Terminals

Gold-plated connections minimize signal loss by providing low contact resistance and high conductivity, ensuring stable performance over the years with resistance to oxidation.

Precise Gain Control

With GAIN and level controls, users can make precise adjustments to match their speaker and source combinations, ensuring safe operation and optimum performance.

Powerful PWM for Accurate Voltage Regulation

The robust PWM structure used in the power stage maintains precise control over the supply voltage, even amid fluctuations in the vehicle's electrical system, delivering stable, safe, and consistent performance under varying conditions.

Matched Dual Transistors for Accurate Signal Processing

The matched dual transistor configuration in the signal and driver stages enhances channel linearity and symmetry, reducing distortion and improving signal processing accuracy, allowing the amplifier to handle demanding loads effectively.

High-Current, Long-Life Capacitors

High-current, long-life capacitors used in the power supply support sudden current demands, enhancing stability. This design ensures long-term reliability and consistent sound performance under automotive conditions.



70-Micron Copper Traces for Optimized Power and Signal Transfer

The PCB features 70-micron thick copper traces that provide low resistance and low loss in power and signal paths, optimizing transmission and supporting dynamic performance even under high current draw, while reducing heat buildup.

Compact Chassis Design

The CNC-machined compact aluminum chassis is designed to occupy minimal space in the vehicle while aesthetically complementing modern car interiors with its clean and elegant lines. It offers both mechanical durability and efficient heat dissipation.

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JFET Input and Buffer Stage

The JFET-based input and buffer stage maintain high input impedance and low noise, preserving the integrity of the signal from the source unit. This results in a natural and detailed sound character, even in challenging electrical environments within vehicles.

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| Channel | mono |
| Class | Class-AB (bias A) |
| Voltage Range | 10.5-16.5 volt |
| Idle current | 1.32 amper |
| Maximum Current | 100 amper |
| Power | 1x552 watt @ 4 Ω (THD+N %1.0) 1x860 watt @ 2 Ω (THD+N %1.0) |
| S/N Ratio | 110 |
| Damping | 400 |
| THD+N | % 0.003 (10 W) % 0.06 (%90 power) |
| Frequency Range | 4-24.000 Hz |
| Input Sensitivity | 0.3-8 volt |
| Input Empedance | 22 K Ω |
| Input Technology | OP series Jfet |
| Output Technology | Sanken bipolar transistor |
| PWM Technology | IR mosfet, Cosmo toroidal, |
| Crossover | none or optional 4-320 Hz low pass |
| Dimensions (HxWxD) | 56x165x320 mm |
| Weight | 3420 gr |
| Producing Country | Türkiye |



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