

# audio technologies BEESES

## BS-O 102



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.

## TEKNİK ÖZELLİKLER

Channel	2
Class	Class-AB (bias A)
Voltage Range	10.5-16.5 volt
Idle current	1.32 amper
Maximum Current	80 amper
Power	2x267 watt @ 4 $\Omega$ ( THD+N %1.0 ) 2x400 watt @ 2 $\Omega$ ( THD+N %1.0 )
S/N Ratio	110
Damping	200
THD+N	% 0.003 (10 W ) % 0.6 (%90 power)
Frequency Range	8-54.000 Hz
Input Sensitivity	0.3-8 volt
Input Empedance	22 K $\Omega$
Input Technology	OP series Jfet
Output Technology	Sanken bipolar transistor
PWM Technology	IR mosfet, Cosmo toroidal,
Crossover	none
Dimensions (HxWxD)	56x165x320 mm
Weight	3420 gr
Producing Country	Türkiye



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