

**Don't just listen to the sound**

**Live it**

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*Superior technology, exceptional sound performance*

audiotechnologies  
**BEES**

# SQL 4400

## Reference Series



The SQL 4400 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 SQL 4400 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.



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## 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

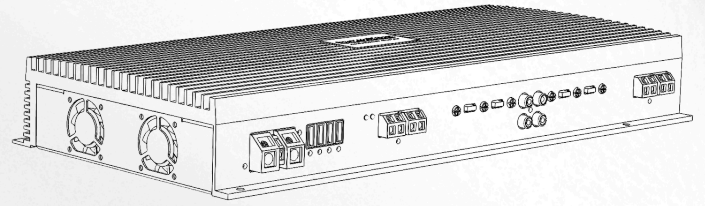
The precisely CNC-machined compact aluminum chassis is designed to occupy minimal space inside the vehicle, while its clean and elegant lines aesthetically complement modern car interiors. It offers both mechanical robustness and efficient heat dissipation.

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## SQL 4400

Reference Series



## TECHNICAL SPECIFICATIONS

Channel	4
Class	Class-AB
Voltage Range	10.5-18 volt
Idle current	1.56 amper
Maximum Current	148 amper
Power (13.6V)	4x256 watt @ 4 $\Omega$ ( THD+N %1.0 ) 4x464 watt @ 2 $\Omega$ ( THD+N %1.0 )
S/N Ratio	105
Damping	400
THD+N	% 0.025 (10 W) % 0.033 (%90 power)
Frequency Range	8-54.000 Hz
Input Sensitivity	0.3-8 volt
Input Empedance	22 K $\Omega$
Input Technology	Jfet
Output Technology	Infineon mosfet
PWM Technology	IR mosfet, Cosmo toroidal,
Crossover	Low pass- Band pass-High pass( 32Hz-4Khz)
Dimensions (HxWxD)	62x216x435 mm
Weight	5900 gr
Producing Country	Türkiye

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# SQL 4200

## Reference Series



The SQL 4200 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

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### Ultra-Low Distortion

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### Wide Impedance Compatibility

*Supporting speaker impedances from a minimum of 2 Ohms up to 8 Ohms, the SQL 4200 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

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### High-Current, Long-Life Capacitors

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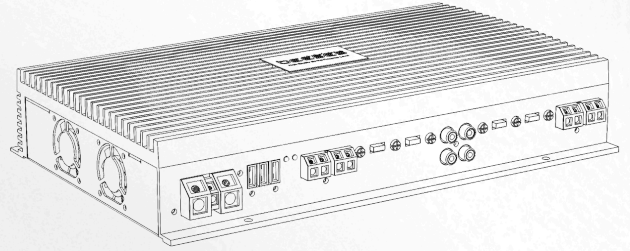
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# BEESSES

## SQL 4200

Reference Series



## TECHNICAL SPECIFICATIONS

<b>Channel</b>	4
<b>Class</b>	Class-AB
<b>Voltage Range</b>	10.5-18 volt
<b>Idle current</b>	1.00 amper
<b>Maximum Current</b>	90 amper
<b>Power (13.6V)</b>	4x124 watt @ 4 Ω ( THD+N %1.0 ) 4x230 watt @ 2 Ω ( THD+N %1.0 )
<b>S/N Ratio</b>	105
<b>Damping</b>	400
<b>THD+N</b>	% 0.015 (10 W) % 0.024 (%90 power)
<b>Frequency Range</b>	8-54.000 Hz
<b>Input Sensitivity</b>	0.3-8 volt
<b>Input Empedance</b>	22 KΩ
<b>Input Technology</b>	Jfet
<b>Output Technology</b>	Infineon mosfet
<b>PWM Technology</b>	IR mosfet, Cosmo toroidal,
<b>Crossover</b>	Low pass- Band pass-High pass( 32Hz-4Khz)
<b>Dimensions (HxWxD)</b>	62x216x330 mm
<b>Weight</b>	4250 gr
<b>Producing Country</b>	Türkiye

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# BEESER

## OF-1



The OF 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 OF 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 OF 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 OF 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.

# audio technologies BEESSES OF-1

## 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.

## TECHNICAL SPECIFICATIONS

<b>Channel</b>	mono
<b>Class</b>	Class-AB (bias A)
<b>Voltage Range</b>	10.5-16.5 volt
<b>Idle current</b>	1.32 amper
<b>Maximum Current</b>	100 amper
<b>Power (13.6V)</b>	1x552 watt @ 4 $\Omega$ ( THD+N %1.0 ) 1x860 watt @ 2 $\Omega$ ( THD+N %1.0 )
<b>S/N Ratio</b>	110
<b>Damping</b>	400
<b>THD+N</b>	% 0.003 (10 W) % 0.06 (%90 power)
<b>Frequency Range</b>	4-24.000 Hz
<b>Input Sensitivity</b>	0.3-8 volt
<b>Input Empedance</b>	22 K $\Omega$
<b>Input Technology</b>	OP series Jfet
<b>Output Technology</b>	Sanken bipolar transistor
<b>PWM Technology</b>	IR mosfet, Cosmo toroidal,
<b>Crossover</b>	none or optional 4-320 Hz low pass
<b>Dimensions (HxWxD)</b>	56x165x320 mm
<b>Weight</b>	3420 gr
<b>Producing Country</b>	Türkiye

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# BEESSES

## OF-2



The OF 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 OF 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

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### Ultra-Low Distortion

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### Wide Impedance Compatibility

*Supporting speaker impedances from a minimum of 2 Ohms to a maximum of 8 Ohms, the OF 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

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### 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

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### 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.

# audio technologies BEESSES OF-2

## 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.

## TECHNICAL SPECIFICATIONS

Channel	2
Class	Class-AB (bias A)
Voltage Range	10.5-16.5 volt
Idle current	1.32 amper
Maximum Current	80 amper
Power (13.6V)	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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**BEESES**

**PETEK**  
stereo

The PETEK Series is designed using high-quality passive and semiconductor components, developed through extensive R&D to deliver a powerful and impressive sound experience. Engineered to meet Hi-Res Audio standards with wide frequency response and low distortion values, it integrates seamlessly into in-car audio systems with its compact chassis design and optimized power transfer.



## Superior Sound Performance

Designed using the highest quality passive and semiconductor components from leading manufacturers, the PETEK 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 PETEK 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 PETEK 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.*

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*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

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## Isolated Preamp and Amplifier Architecture

The preamp and amplifier stages are isolated from the power supply using gold-plated metal separators, minimizing magnetic field effects and interference, resulting in cleaner, more stable, and low-noise signal processing in challenging automotive electrical environments.

## Gold-Plated PCB for Minimized Signal Loss

The gold-plated PCB surfaces used in signal paths reduce oxidation and contact resistance, minimizing losses while maintaining high resolution and stable sound character across the 8-54,000 Hz frequency range.

## Gold-Plated Terminals and Fuse Holders for Optimized Power Transfer

Gold-plated contacts in the power input terminals and fuse holders provide high conductivity and low contact resistance, optimizing power transfer and ensuring stability during maximum current draw of 44 A.

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**BEES**

**PETEK**  
stereo

## Hi-Res Audio Compliant PETEK Design

The PETEK Series is designed to meet Hi-Res Audio standards, reflecting the details of high-resolution recordings with natural tonal balance and high transparency, thanks to its Class AB (Bias A) structure and OPA series bipolar input technology.

## 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.

## TECHNICAL SPECIFICATIONS

Channel	2
Class	Class-AB (bias A)
Voltage Range	10.5-16.5 volt
Idle current	0.72 amper
Maximum Current	44 amper
Power (13.8V)	2x92 watt @ 4 Ω ( THD+N %1.0 ) 2x164 watt @ 2 Ω ( THD+N %1.0 )
S/N Ratio	110
Damping	200
THD+N	% 0.005 (10 W ) % 0.08 (%90 power)
Frequency Range	8-54.000 Hz
Input Sensitivity	0.3-8 volt
Input Empedance	22 KΩ
Input Technology	OPA series bipolar
Output Technology	Sanken bipolar transistor
PWM Technology	IR mosfet, Magnetics toroidal,
Crossover	none
Dimensions (HxWxD)	48x225x151 mm
Weight	1770 gr
Producing Country	Türkiye

The PETEK Series is designed using high-quality passive and semiconductor components, developed through extensive R&D to deliver a powerful and impressive sound experience. Engineered to meet Hi-Res Audio standards with wide frequency response and low distortion values, it integrates seamlessly into in-car audio systems with its compact chassis design and optimized power transfer.



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audio technologies  
**BEES**

**PETEK**  
mono block

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# audio technologies BEESES PETEK mono block

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## TECHNICAL SPECIFICATIONS

Channel	1
Class	Class-AB (bias A)
Voltage Range	10.5-16.5 volt
Idle current	0.62 amper
Maximum Current	32 amper
Power (13.8V)	1x170 watt @ 4 Ω ( THD+N %1.0 ) 1x264 watt @ 2 Ω ( THD+N %1.0 )
S/N Ratio	110
Damping	400
THD+N	% 0.02 (10 W) % 0.6 (%90 power)
Frequency Range	4-32.000 Hz
Input Sensitivity	0.3-8 volt
Input Empedance	22 KΩ
Input Technology	OPA series bipolar
Output Technology	Sanken bipolar transistor
PWM Technology	IR mosfet, Magnetics toroidal,
Crossover	none
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