

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.



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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.

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.



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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.

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 |



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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 |
| Dimensions (HxWxD) | 48x225x151 mm |
| Weight | 1770 gr |
| Producing Country | Türkiye |