Premium Amplifier Series

Max. 1100W

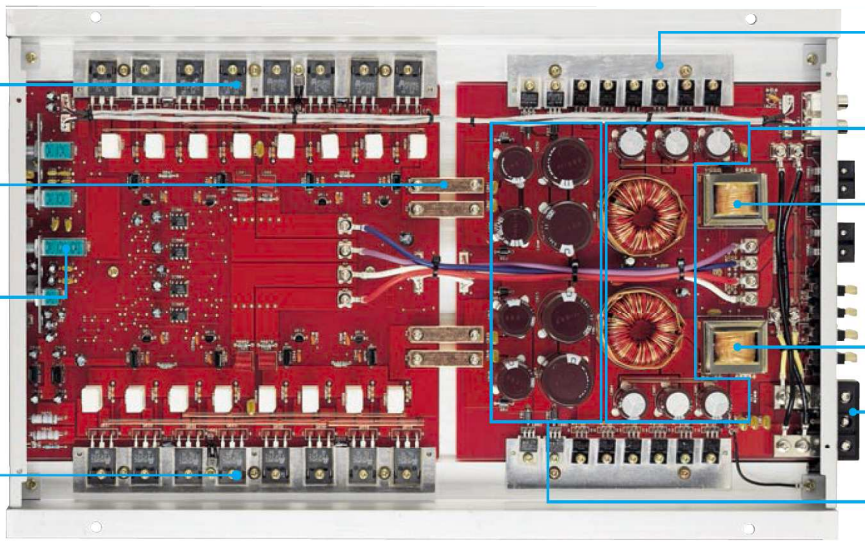
34230

2 Channel Power Amplifier with ChannelFlex Crossover plus Subsonic Filter

Oversized output transistors utilize the tried and true Darlington configuration. You get uncompromisingly accurate audio reproduction at all power levels

Heavy duty copper bus bars ensure low-impedance power transfer

Variable crossover controls let you precisely tailor the signals



High-efficiency, High-energy MOSFET Power Supply

Dual toroidal power supply transformers and filter capacitors provide noise-free power to the amplifier

Shielded and grounded chokes prevent electromagnetic and radio frequency interference from contaminating the signal

Heavy duty terminal metal blocks connected directly to the power switching circuit

Oversized secondary filter capacitors give you stronger bass

Signal amp section

Power supply section

Power, control and intensity.
The ECLIPSE Premium Amplifiers feature no current limiting and completely unregulated power supplies for a neutral, clean sound quality with virtually unlimited dynamic power on demand.

Separate power supply and signal amplifier sections.
The ECLIPSE 34230 has separate and independent amplifier power supply and signal sections. The benefit of having separate power and driver stages are greater in a car audio environment, with its significant electrical current, vibrations and various sources of distortion. The ECLIPSE 34230 has no noise interference between the power and driver stages such as switching distortion and radiated noise for sonic purity and effortless power.

Symmetrical layout.
The ECLIPSE 34230 utilizes a symmetrical component layout to achieve superior channel separation. The right and left channels are physically isolated to eliminate intermodulation and achieve excellent separation, resulting in vastly improved system imaging capability.

Massive bus bars.
The massive bus bars allow high current to flow to the PC board more efficiently and keeps unwanted heat and resistance to a minimum.

High voltage input.
ECLIPSE engineered very high input voltage capabilities into its amplifiers to take advantage of the high signal voltage output from the head unit. Able to handle input signals of up to 8 volts, these amplifiers easily cope with competition-use demands.

ChannelFlex Crossover.
There are effectively two separate and distinct crossovers with a variable subsonic filter in the 34230 and switchable slope control for the PA4212. The selectable slope allows for more precise control of bandwidth limited output power, which means more sonic accuracy in subwoofers, midbass drivers, and midrange drivers without distortion. The variable subsonic filter in the 34230 and switchable slope control for the PA4212 will make speakers last longer and sound audibly better.

Preamp outputs.
The 34230 also features crossover preamp level outputs, for adding additional amplifiers. Signal purity is maintained throughout due to common signal reference grounds and high signal voltages. It perfectly complements the simplicity of total system design using ECLIPSE amplifiers.

Intelligent 7-way discrete protection circuitry.
Seven-way protection circuitry protects the amplifiers from accidental misconnections or short circuits in the audio system. There is thermal protection (up to 90°C), DC offset, protection against excessive current on the output side, voltage output overload, excessive current in the power supply, reverse polarity power input and shorted speaker leads. A servo system monitors each of these circuits and measures them against a reference. If a condition is determined to be outside of reference tolerances, the amplifier enters a protection mode, preventing damage to the amp and audio system. The protection circuitry is never in the audio signal path, keeping the audio signal free of interference, coloration or noise.

Noise reduction with low distortion and ultralow negative feedback.
ECLIPSE amplifiers use very high-quality amp devices and the circuit makes minimal use of negative feedback for better sound. The higher-quality components in ECLIPSE amplifiers and their advanced circuits make “bandaid” fixes like too much NFB unnecessary.

High-current, high-speed output devices.
The output devices are capable of generating high current at high speed to improve both frequency response and amplifier damping.

High-efficiency, high-energy MOSFET power supply.
The ECLIPSE power supply uses current draw from the car’s electrical system more efficiently to produce higher power.

Double-sided printed circuit boards.
ECLIPSE Premium Amplifiers employ 70-micron copper circuit board traces (twice the thickness of a conventional copper trace) for superior sound quality. This technology provides lower distortion and improved low frequency performance.

Audiophile-grade component selection.
High-quality components and parts designed exclusively for quality audio applications are employed for a difference that is easily heard.

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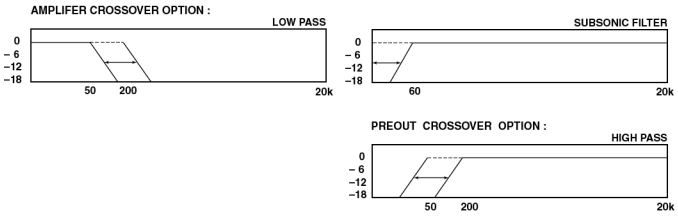
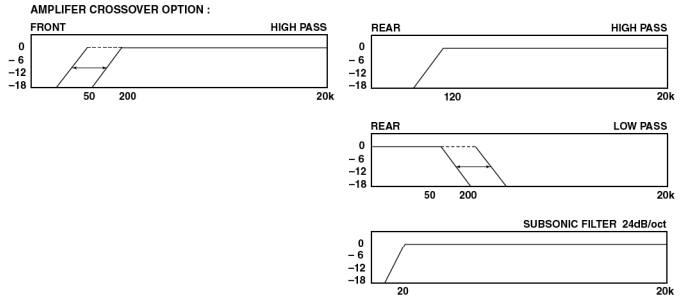


Max. 960W

PA5532

5/3 Channel Power Amplifier
with ChannelFlex Crossover plus Subsonic Filter

Specifications

		34230	PA5532
13.8V POWER SUPPLY			
Max. Power Output		550W × 2ch (4Ω)	125W × 4ch (2Ω), 460W × 1ch (SW, 2Ω)
Power Output	2Ω	—	70W × 4ch, 280W × 1ch
	4Ω	370W × 2ch	50W × 4ch, 200W × 1ch
	4Ω bridged	—	140W × 2ch
THD @ Rated Power	@ 2Ω stereo	0.008%	0.008%
	@ 4Ω stereo	0.004%	0.004%
	@ 4Ω bridged	0.008%	0.008%
Signal to Noise		105dB	105dB
Freq. Response		+0, –0.7	+0, –0.7
Crosstalk		–75dB	–75dB
Slew Rate		10Vμs	10Vμs
Damping Factor	@ 60Hz	>200	>200
Input Sensitivity		0.2 ~ 8V	0.2 ~ 8V
Max. Current Consumption (4Ω)		100 amps	70 amps
CHANNELFLEX CROSSOVER			
Amp Crossover	High Pass 12dB/octave	—	50 ~ 200Hz (Front) 120Hz (Rear)
	Low Pass 12dB/octave	50 ~ 200Hz	50 ~ 200Hz
Pre-Out Crossover	High Pass 12dB/octave	50 ~ 200Hz	—
	Low Pass 12dB/octave	—	—
Subsonic Filter	Freq. Range	0-60Hz	20Hz (Fix)
	Slope	18dB/octave (Fix)	12dB/octave (Fix)
Dimensions (W × H × D)		18.80″ × 2.05″ × 11.85″	18.80″ × 2.05″ × 11.85″

Designed, engineered and made in the U.S.A.