

Integrated Stereo Amplifier E-370

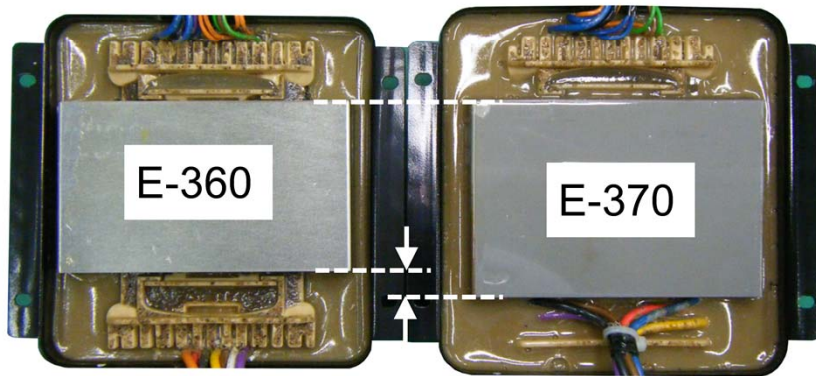


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E-370 is a succession model of E-360.
Technical high lights of E-370 are ULTRA LOW NOISE
and SUPER HIGH DAMPING-FACTOR. They were
inherited from our flagship pre-amplifier C-3850 and
flagship power-amplifier A-200.

Improvement of power supply

- Reinforced power transformer
- Increased capacitors
 - 22,000 μ F x 2 pieces \rightarrow 30,000 μ F x 2 pieces



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The power supply is reinforced.

The capacity of power transformer and capacitors are increased.

Rated output power

- Class-AB 150W / channel into 4Ω



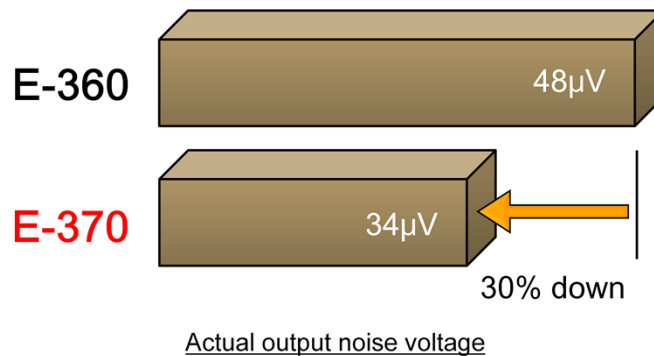
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The rated output power is 100W into 8 Ω load and 150W into 4 Ω load.

Especially, the rated output power into 4 Ω load is enhanced 7% from the former model by the improvement of power supply.

Ultra Low Noise

- Lower noise than the former model E-360
 - Actual noise voltage of speaker output: $34\mu\text{V}$
@Volume position: -30dB



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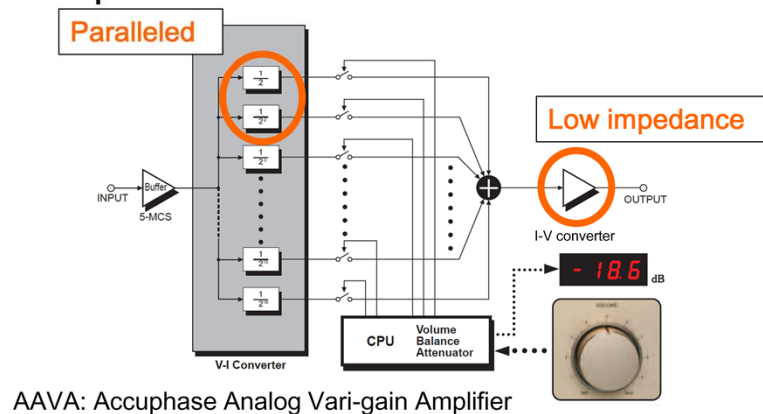
E-370 is the remarkably low noise amplifier exceeding E-360.

E-370 has $34\mu\text{V}$ of the actual noise voltage.

This is 30% lower(-3dB) than the former model E-360.

Technology for ultra low noise

- AAVA re-designed for low noise
 - Paralleled V-I converter in larger two units
 - Low-impedance feedback network I-V converter



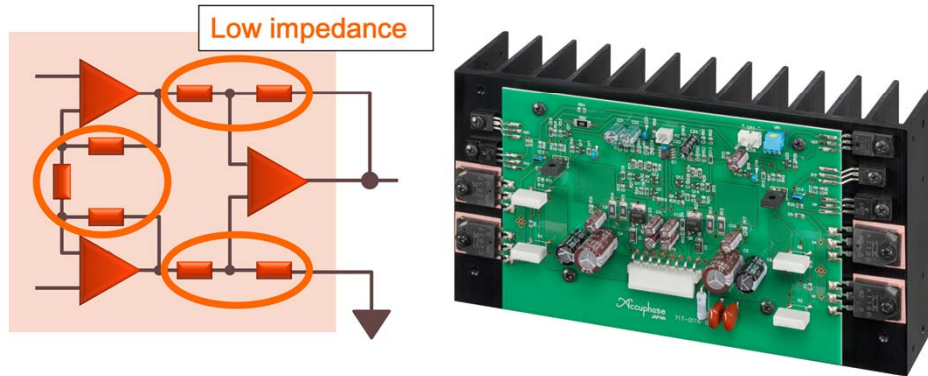
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AAVA in E-370 achieves low noise by paralleled V-I converter in larger two units and low-impedance feedback network on I-V converter.

Thanks to these technologies, the noise level at AAVA has been improved by 20% lower(-2dB) than E-360.

Technology for ultra low noise

- Power amplifier re-designed for low noise
 - Low-impedance feedback network



Power amplifier block with instrumentation amplifier configuration

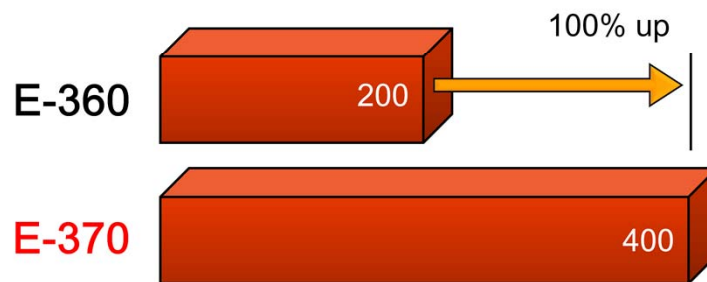
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E-370 applies Low-impedance feedback network in power amplifier section.

Thanks to this technology, the noise level at power amplifier has been improved by 10% lower(-1dB) than E-360.

Super high Damping-Factor

- Two times higher than E-360
 - Damping Factor: 400 guaranteed



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E-370 achieves 400 of Damping-Factor.

It is two times higher than the former model E-360.

400 of DF is guaranteed spec. In actuality, DF of E-370 is over 500.

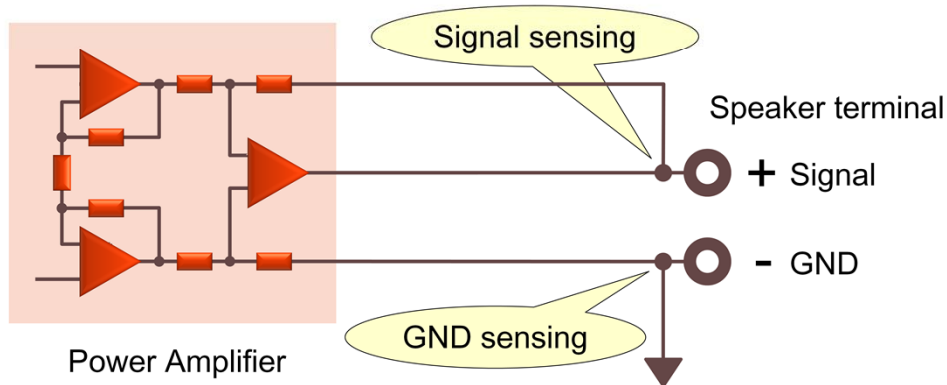
*Damping-Factor, DF:

An index of speaker driving ability. Higher Damping-Factor amplifier has higher speaker driving ability.

$DF = 8 \text{ ohm} / \text{Output-impedance}$

Technology for high DF

- Balanced Remote-sensing
 - Feedback from speaker terminal proximity
 - Signal-line and GND-line sensing

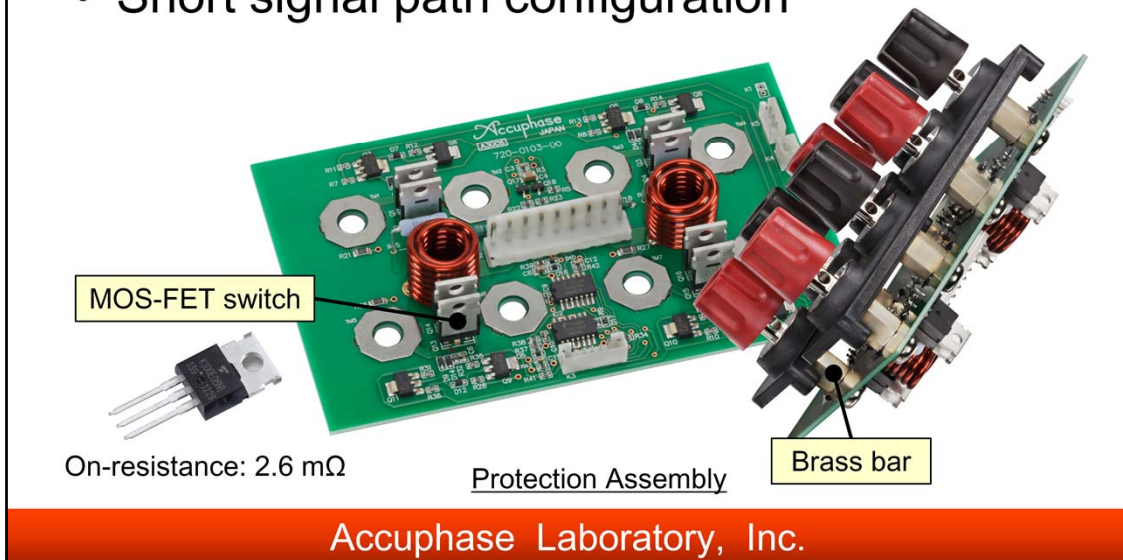


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Remote-sensing is the technique to lower output impedance of amplifier by the negative feedback with signal sensing from close up the speaker terminals. Balanced Remote-sensing is the technique to make impedance even lower by GND sensing and the negative feedback of GND level with adding the signal sensing. Not only Damping-factor is improved but also Total Harmonic Distortion and Intermodulation Distortion get better by Balanced Remote-sensing. Balanced Remote-sensing was not applied in the former model E-360.

Technology for high DF

- Speaker protection equipped with MOSFET
- Short signal path configuration



Although mechanical relay is the most popular component for speaker protection, it does not have high reliability and low contact resistance either.

E-370 applies MOS-FET switch instead of mechanical relay for speaker protection.

Damping-Factor, reliability and sound quality are improved by MOS-FET switch.

By using brass bar between speaker terminal and PC-board, Making signal path short attains having low impedance.

Further more ...

- Ready for the option board DAC-40
 - Sampling frequency on the front display



- high-quality remote commander



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E-370 accepts the digital input board DAC-40.
You can see the figure of sampling frequency input into DAC-40 on the front panel display.
Elegant and high-quality remote commander is supplied with.