



Fosi Audio ZA3

The Next Generation Balanced Dual-Mode Class-D Amplifier

Innovations Powered by Your Voice





Fosi Audio

Fidelity of sound immerses you in the audio world.

Amplifying Your Voice, Shaping Our Innovation

At Fosi Audio, behind every innovation, there's a story. The birth of the ZA3 amplifier is just such a story, centered around our users. After the launch of the V3 amplifier, we gathered innumerable feedback from passionate audiophiles. They expressed a desire for us to develop an even better amplifier based on V3.

zenmorris182rm from AudioScienceReview.com

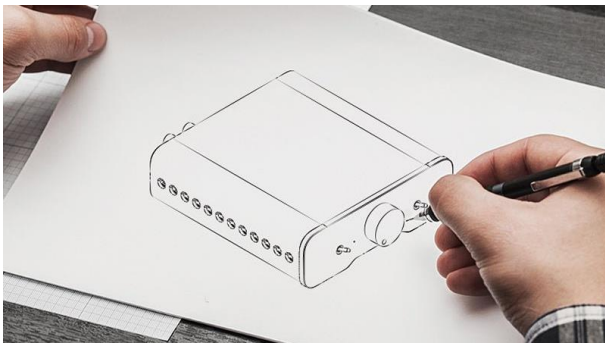
If they made one that was a balanced mono block wow, that would be god like.

grogi.giant from AudioScienceReview.com

A true audiophile will never look at TRS or even RCA connectors, as only balanced connection (exp. XLR) preserves the signal.

We listened, we responded, and we took action.

After countless design sketches, prototype developments, and rigorous testing, the blueprint of ZA3 gradually took shape. Every adjustment, every optimization of detail, was a direct response to our customers' voices. We didn't just listen to their needs; we delved deeply into their passion and pursuit.



ZA3 is more than just a product; it's the crystallization of joint efforts between Fosi Audio and our users. We proudly say that every customer is a co-designer behind this amplifier. From the balanced XLR input, support for mono mode to upgraded heat dissipation design, every feature of ZA3 is crafted to meet audiophiles' most authentic audio experience.



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Specs & Characteristics

Model Name	ZA3	
Amp Chip	Texas Instruments TPA3255 x1	
Op-Amps	NE5532x5 (can be swapped by other DIP-8 dual op-amps)	
Input	RCA, XLR Balanced, 1/4" TRS, 3.5mm Trigger In	
Output	Speaker Out, Sub-Out(cutoff at 300Hz)	
Rated Power Output (1kHz, 1% THD)	48V/5A PSU	Stereo Mode: 180Wx2 @4Ω Mono Mode: 235W @4Ω
	32V/5A PSU	Stereo Mode: 95Wx2 @4Ω Mono Mode: 110W @4Ω
Standard PSU	48V/5A	
Frequency Response	20Hz-20kHz(±0.1dB)	
SNR	>106dB	
SINAD	89dB	
THD	≤0.006%	
Controls	Power/Volume Knob(Taper A pot integrated), Input Toggle, Output Toggle	
Other Features and Characteristics	- Full aluminum alloy chassis with cooling vents on both sides. Amp chip's heatsink is attached to the chassis making the whole case a heatsink - Quality components: Japanese Sumida advanced high-power inductors, Japanese NCC filter caps(63V/2200μF), German WIMA and Japanese ELNA caps - Soft-start thermistor on the power input. Specialized circuit design ensures zero energy consumption after power-off to enhance longevity	

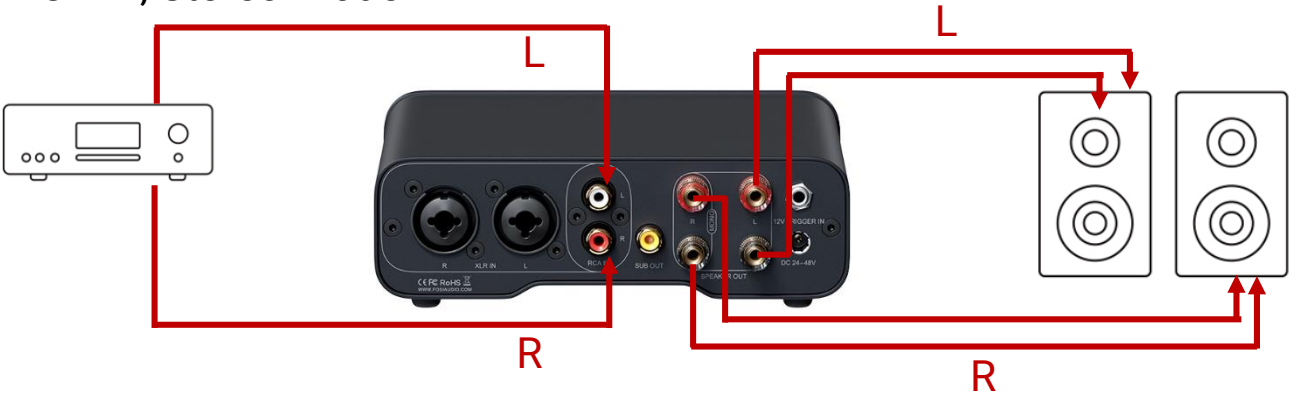


Power Output When Using Different Power Supplies

Model	PSU	Impedance	Stereo Mode(per channel)		Mono Mode	
			Rated Power (1kHz, THD 1%)	Max Power (1kHz, THD 10%)	Rated Power (1kHz, THD 1%)	Max Power (1kHz, THD 10%)
ZA3	32V/5A	4Ω	95W	120W	110W	135W
		6Ω	65W	80W	70W	90W
		8Ω	50W	60W	55W	65W
	48V/5A	4Ω	180W	190W	235W	300W
		6Ω	130W	140W	160W	200W
		8Ω	95W	100W	120W	150W

Usage Diagram

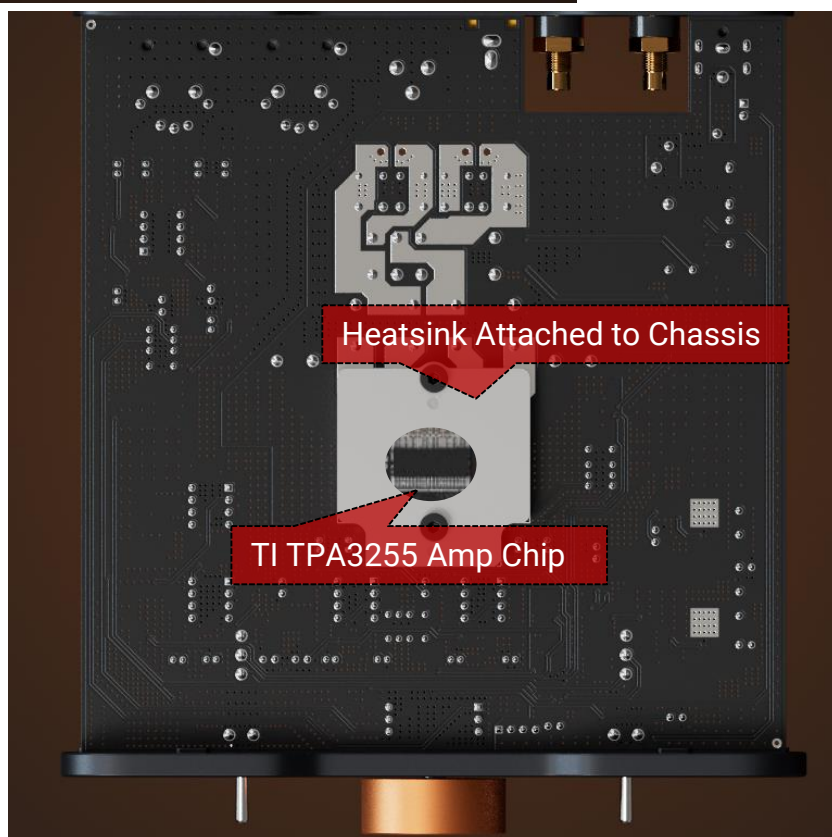
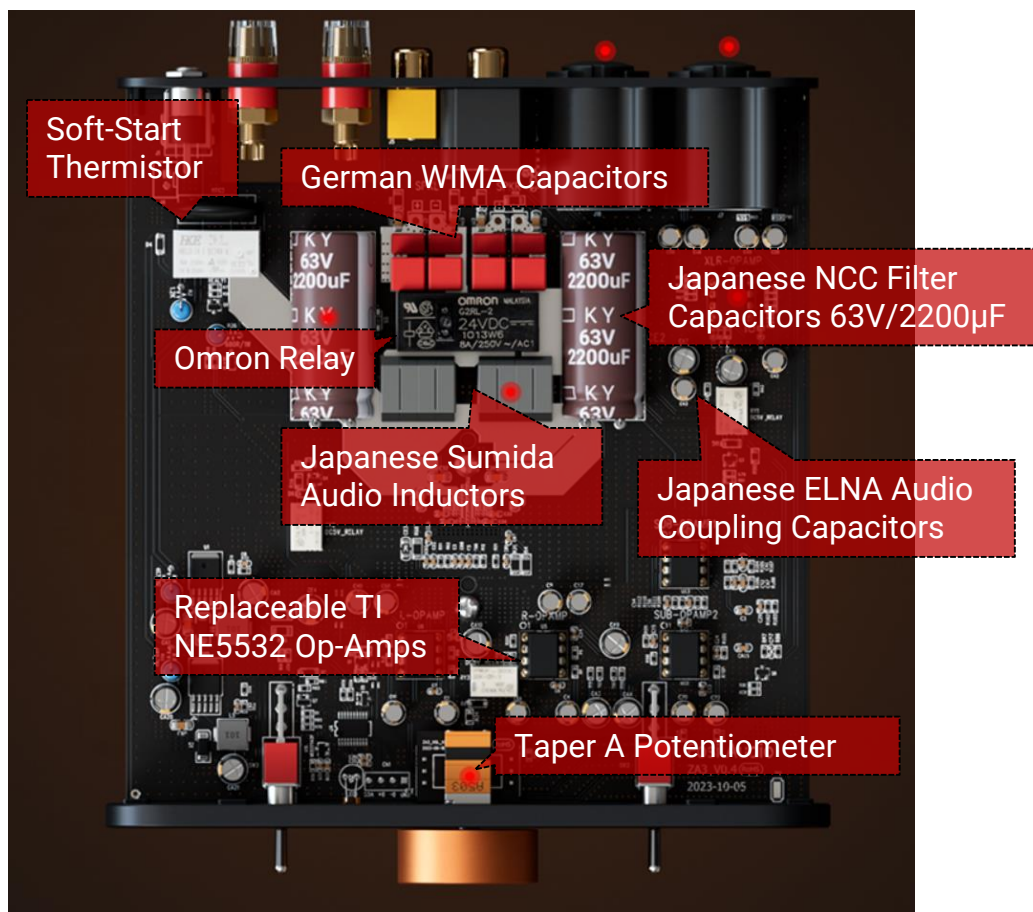
- RCA In, Stereo Mode



- XLR In, Mono Mode, 2.1-Ch



Internals

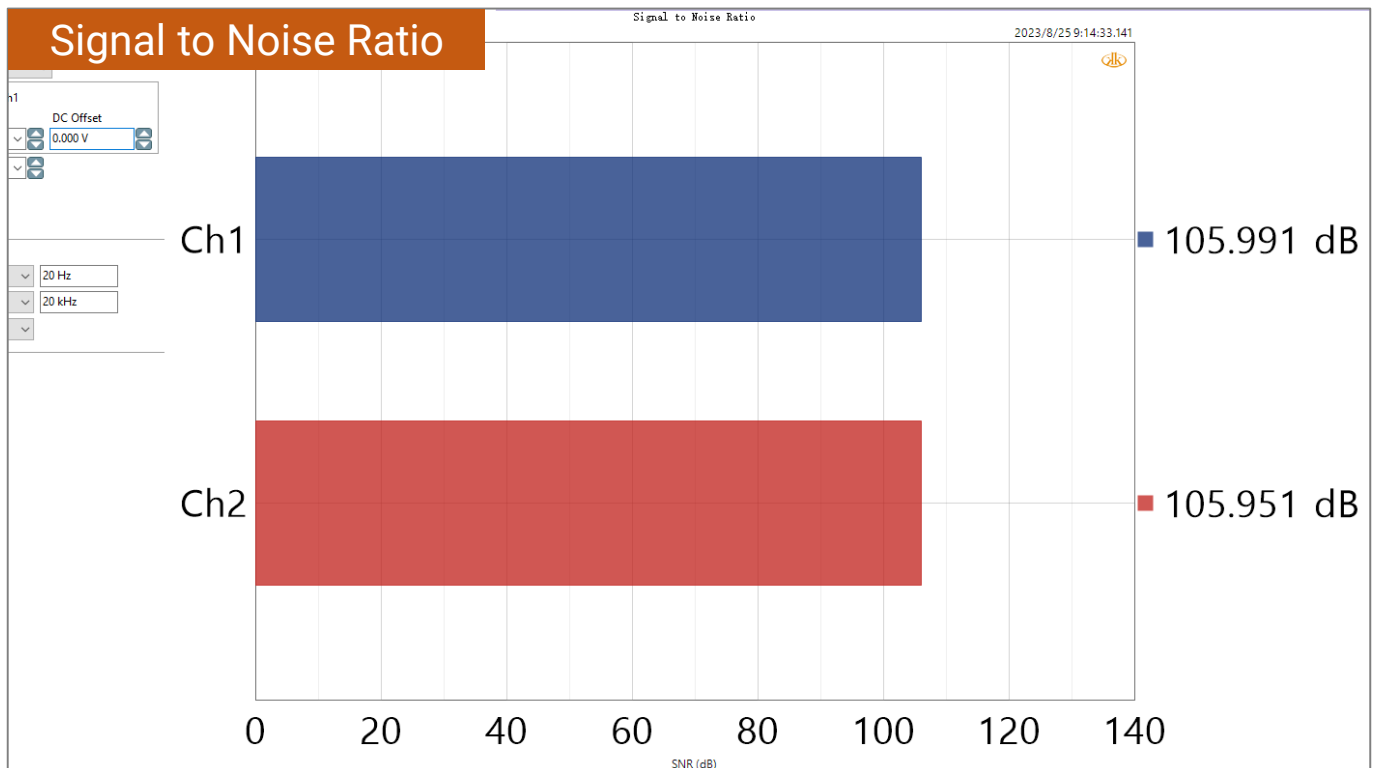
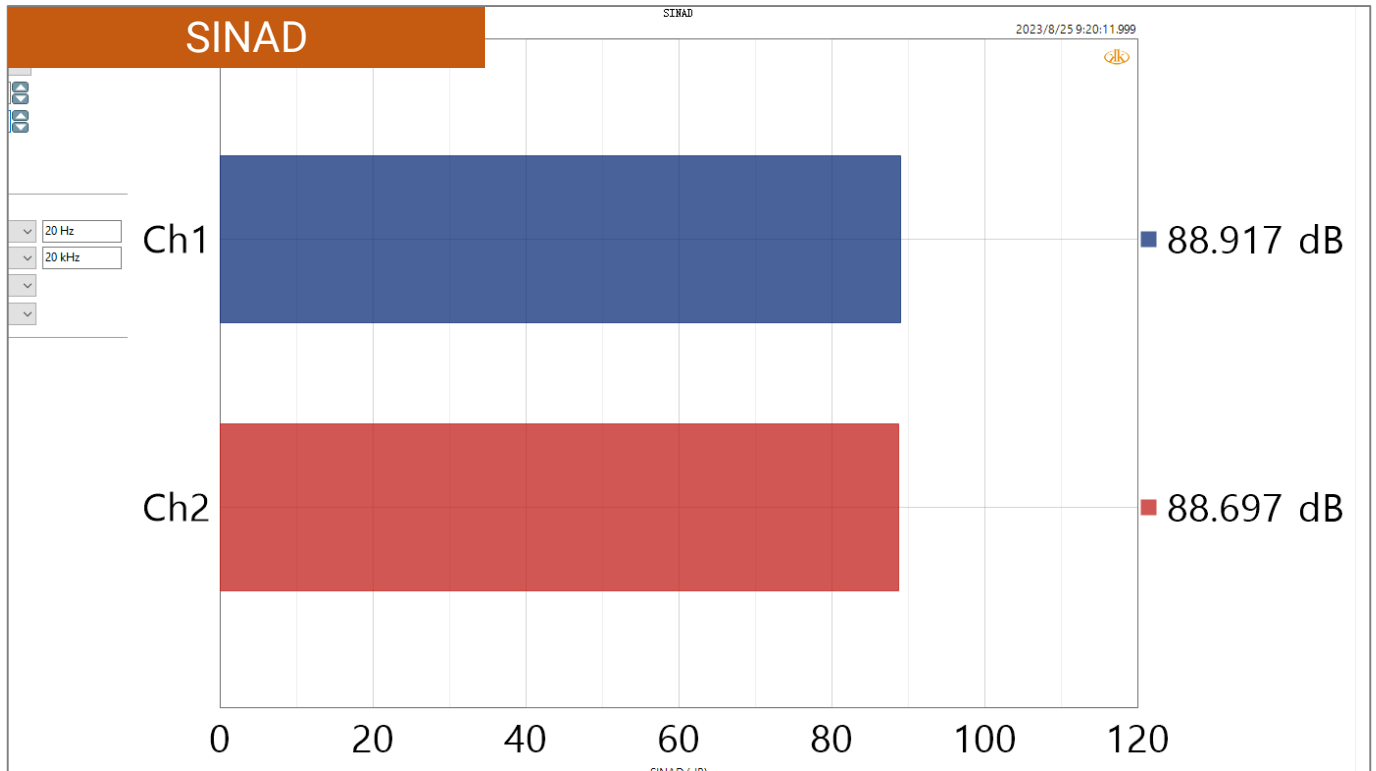




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Some Measurements (with 48V/5A Power Supply)

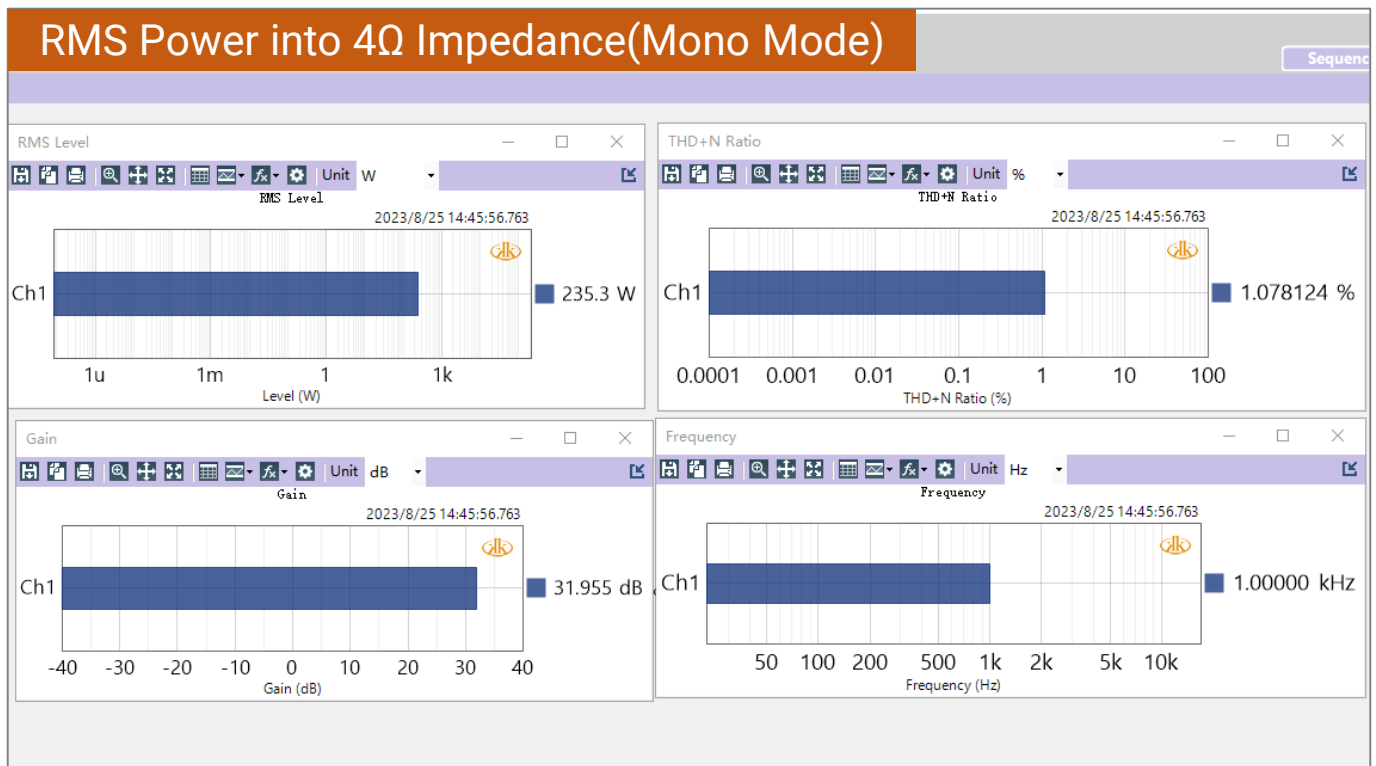
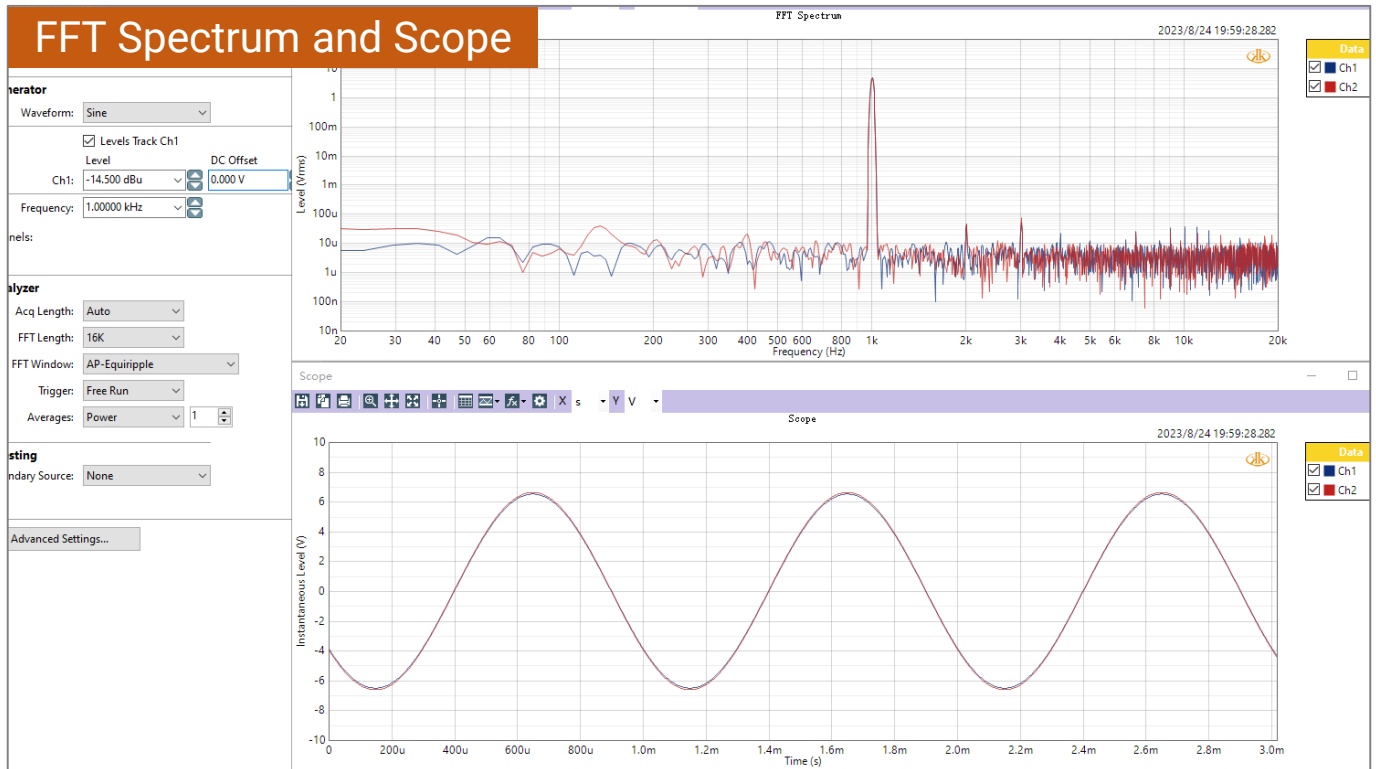




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Some Measurements (with 48V/5A Power Supply)



Gallery



Gallery

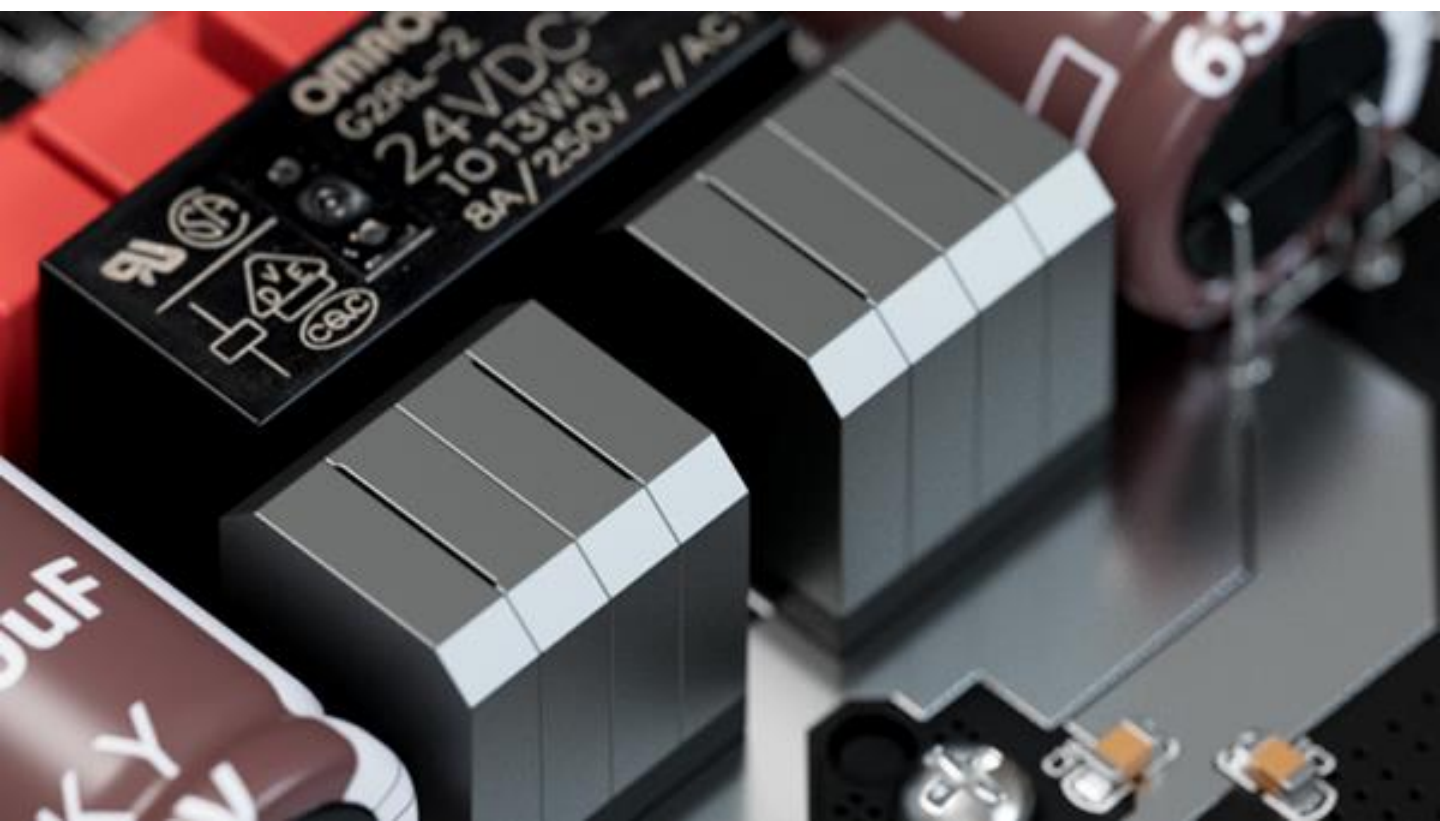




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Gallery



From Our Customers

Mono and Stereo Setup

