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› Coliao YLY-2088 400W Adjustable Multi Speaker Treble/Bass 2-Way Crossover Filter Instruction Manual

Coliao YLY-2088

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INSTRUCTION MANUAL

Introduction

This manual provides comprehensive instructions for the Coliao YLY-2088 400W Adjustable Multi Speaker Treble/Bass 2-Way Crossover Filter. This device is designed to separate audio signals into distinct frequency ranges (treble and bass) for optimal sound reproduction through your speaker system. Please read this manual carefully before installation and operation to ensure correct usage and performance.

Product Features

- 400W maximum power handling for multi-speaker systems.
- Adjustable treble and bass output via onboard jumpers.
- Designed for 2-way speaker configurations.
- Suitable for speaker impedance ranging from 4 to 16 ohms.
- Utilizes anaerobic copper winding for inductance and pure copper wire for enhanced audio quality.
- Compact design for easy integration into speaker enclosures.

Setup and Wiring

Proper wiring is crucial for the functionality of the crossover filter. Refer to the diagram and instructions below for correct connection.

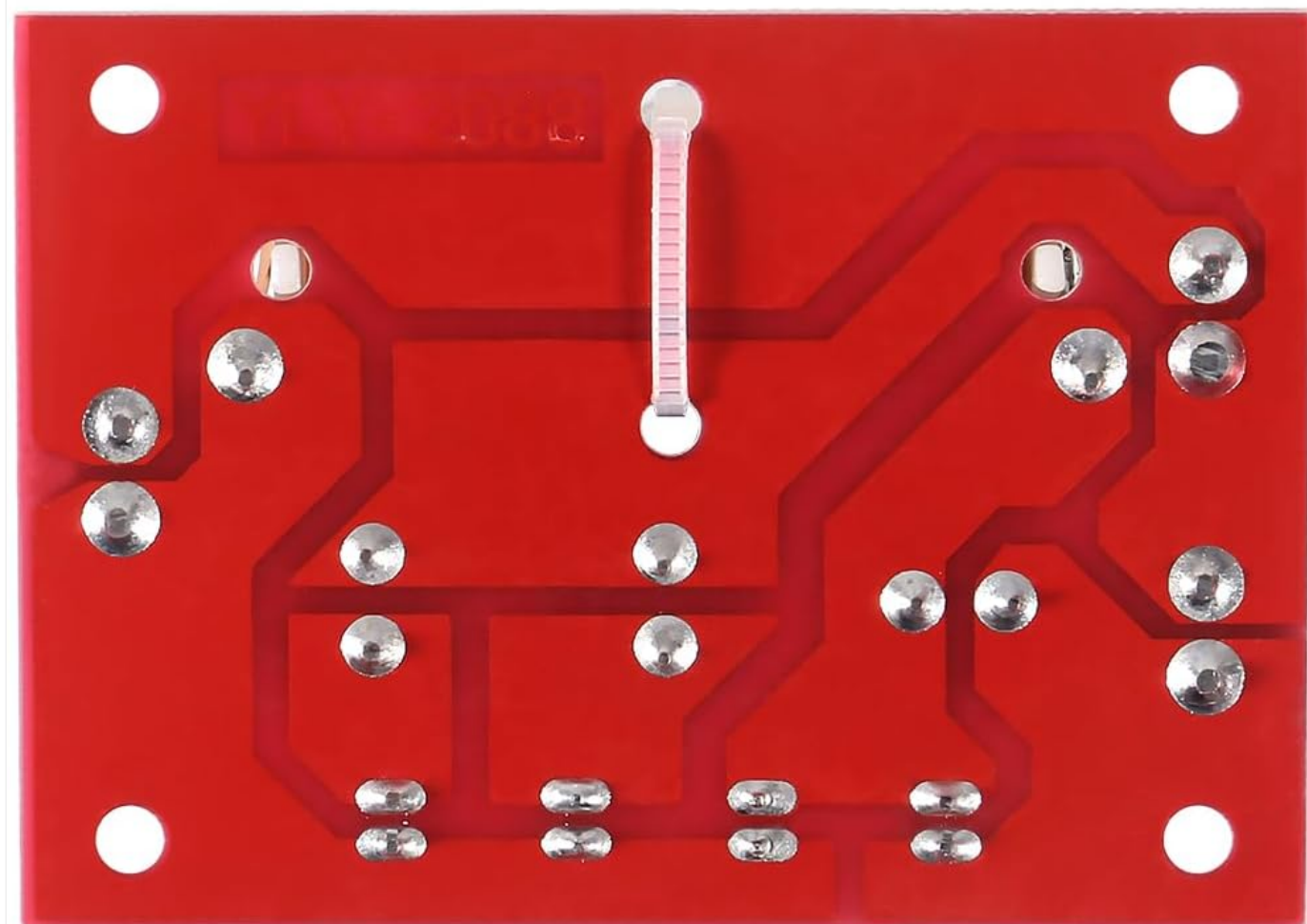
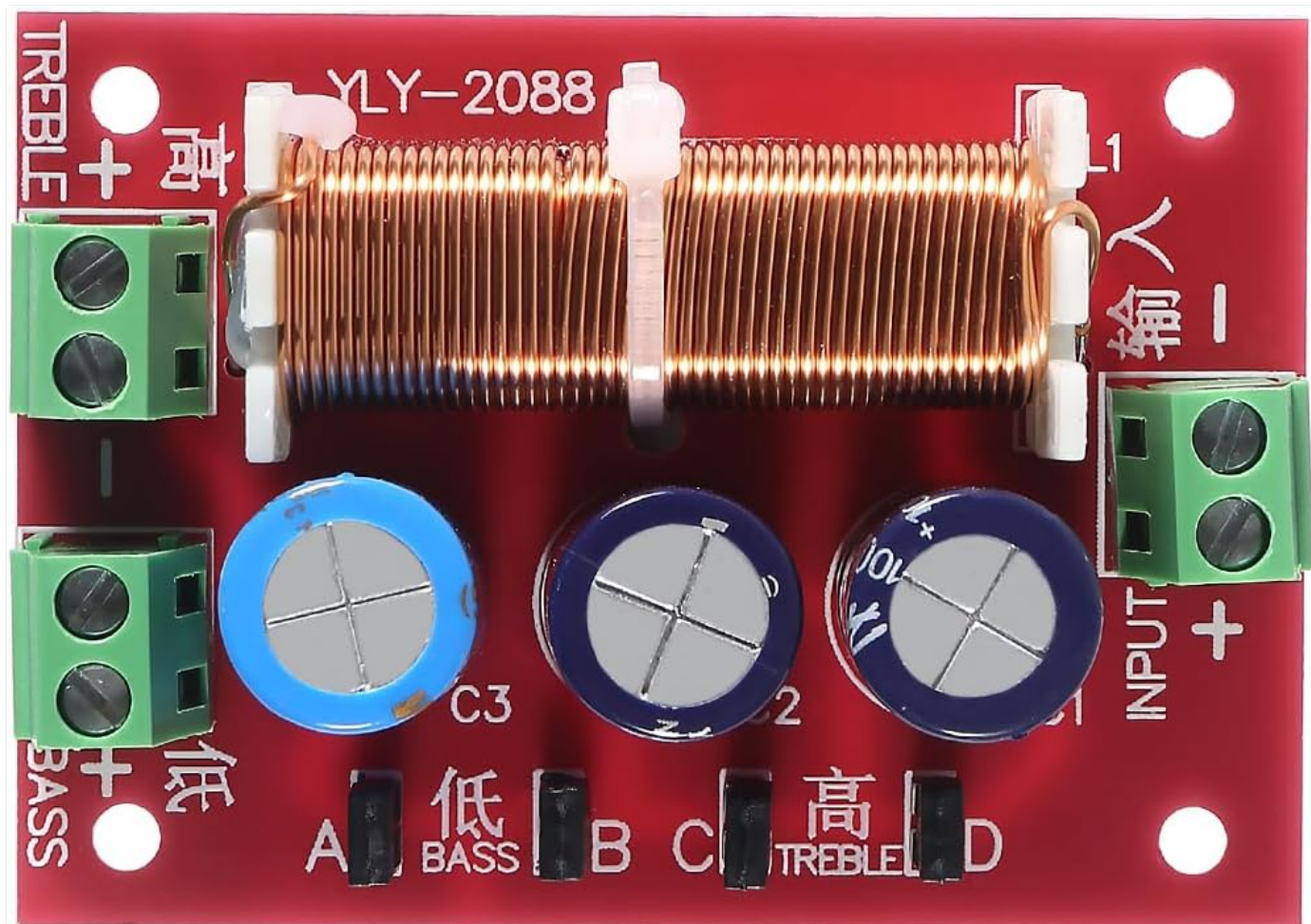


Figure 1: Top view of the Coliao YLY-2088 crossover filter board, illustrating the layout of input, treble, and bass terminals, as well as the four adjustable jumpers (A, B, C, D).

1. **Identify Terminals:** Locate the 'INPUT', 'TREBLE', and 'BASS' terminals on the crossover board. Each terminal typically has a positive (+) and negative (-) connection point.
2. **Connect Input:** Connect the audio signal from your amplifier or source to the 'INPUT' terminals. Ensure correct polarity.
3. **Connect Treble Speaker:** Connect your tweeter or high-frequency speaker to the 'TREBLE' terminals. Observe polarity.
4. **Connect Bass Speaker:** Connect your woofer or low-frequency speaker to the 'BASS' terminals. Observe polarity.

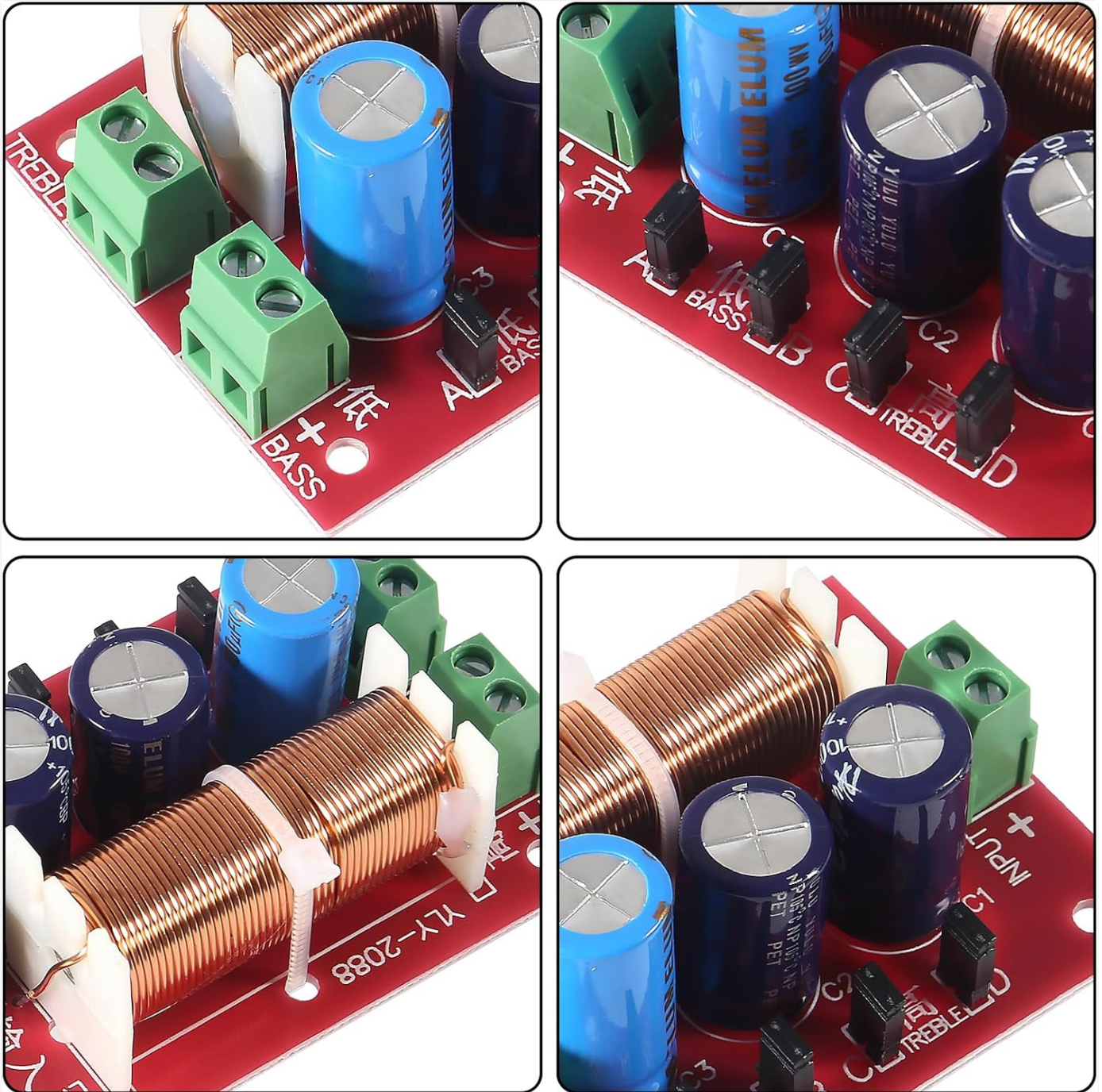


Figure 2: Close-up of the screw terminals on the crossover board, indicating where to connect input, treble, and bass speaker wires.

After connecting the wires, ensure all connections are secure. It is recommended to seal any air gaps in your speaker enclosure after installation to maintain optimal sound quality.

Operating Instructions: Jumper Configuration

The Coliao YLY-2088 features four onboard jumpers (A, B, C, D) to fine-tune the bass and treble audio effects. Experimentation is encouraged to achieve your desired sound profile.

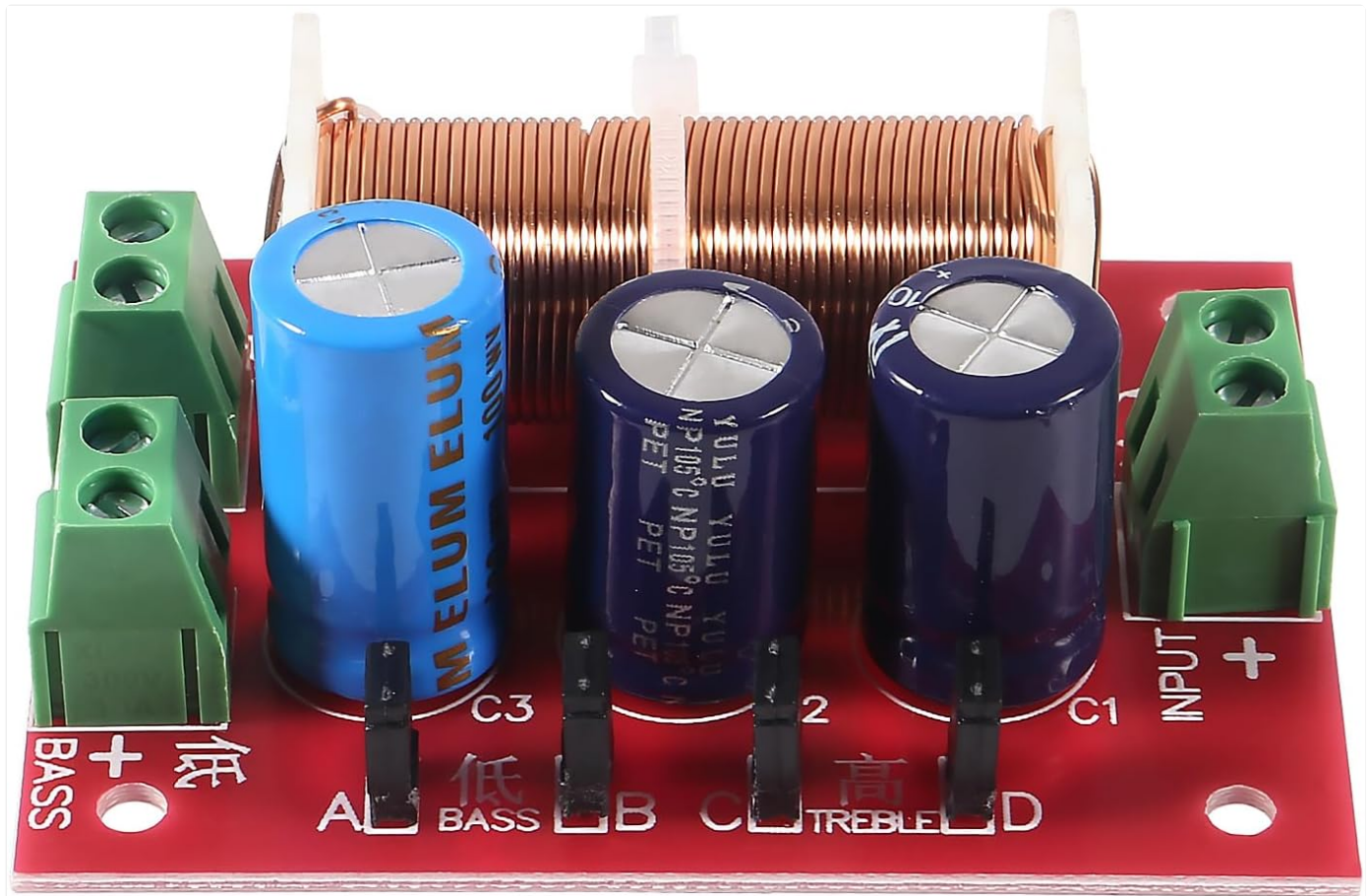


Figure 3: Detailed view of jumpers A, B (Bass) and C, D (Treble) on the crossover board, used for audio optimization.

Bass Adjustment (Jumpers A and B)

- **Jumper A:** Controls the lower limit of the bass range. Removing the cap from Jumper A can limit super low bass frequencies, which may help reduce distortion in some speakers.
- **Jumper B:** Influences the overall bass level. With the cap on Jumper B, bass is decreased. Removing the cap from Jumper B increases the bass output.

Treble Adjustment (Jumpers C and D)

- **Caps on C and D:** When both jumper caps C and D are installed, the treble sound is at its loudest.
- **Cap on C only:** If only the cap on Jumper C is installed, the treble sound will be lower than with both caps.
- **Cap on D only:** If only the cap on Jumper D is installed, the treble sound will be further reduced compared to only C.
- **Caps removed from C and D:** If both caps C and D are removed, there will be no treble sound output.

General Optimization Guidelines

After initial connection, begin listening to music and adjust the jumpers. A common starting point is to use Jumper A and leave B idle. For treble, listen to the actual effect. Here are some general combinations:

- **A + D:** Tends to result in better bass.
- **A + C:** Provides clear treble and bass.

- **A + CD:** Offers clear treble and bass, with an overall effect inclined towards treble.
- **AB + CD:** Can result in a more pronounced mid-range frequency.

If the bass effect is excessively high, consider removing the cap from Jumper A. Continue to optimize the jumper settings until the sound quality meets your preference. Once satisfied, secure the crossover board within your speaker unit.

Maintenance

The Coliao YLY-2088 crossover filter is designed for durability. To ensure its longevity and optimal performance:

- Keep the unit dry and away from moisture.
- Avoid exposing the board to extreme temperatures.
- Clean the board gently with a dry, soft cloth if dust accumulates. Do not use liquid cleaners.
- Ensure all connections remain secure over time.

Troubleshooting

If you encounter issues with your crossover filter, consider the following:

- **No Sound Output:** Verify all wiring connections for correct polarity and secure contact. Ensure that at least one jumper cap is installed for both bass and treble sections (C or D for treble, A or B for bass), as removing all jumpers will result in no sound.
- **Distorted Sound:** Check if the speaker power rating exceeds the crossover's 400W limit. Adjust bass jumpers (A and B) to reduce excessive low frequencies that might cause speaker distortion.
- **Uneven Sound:** Confirm that all jumper caps are properly seated and not bent or damaged. Re-evaluate jumper configurations for desired sound balance.
- **One Channel Not Working:** Inspect wiring for breaks or loose connections on the affected channel. Check the corresponding speaker for functionality.

If problems persist after following these steps, consult a qualified audio technician.

Specifications

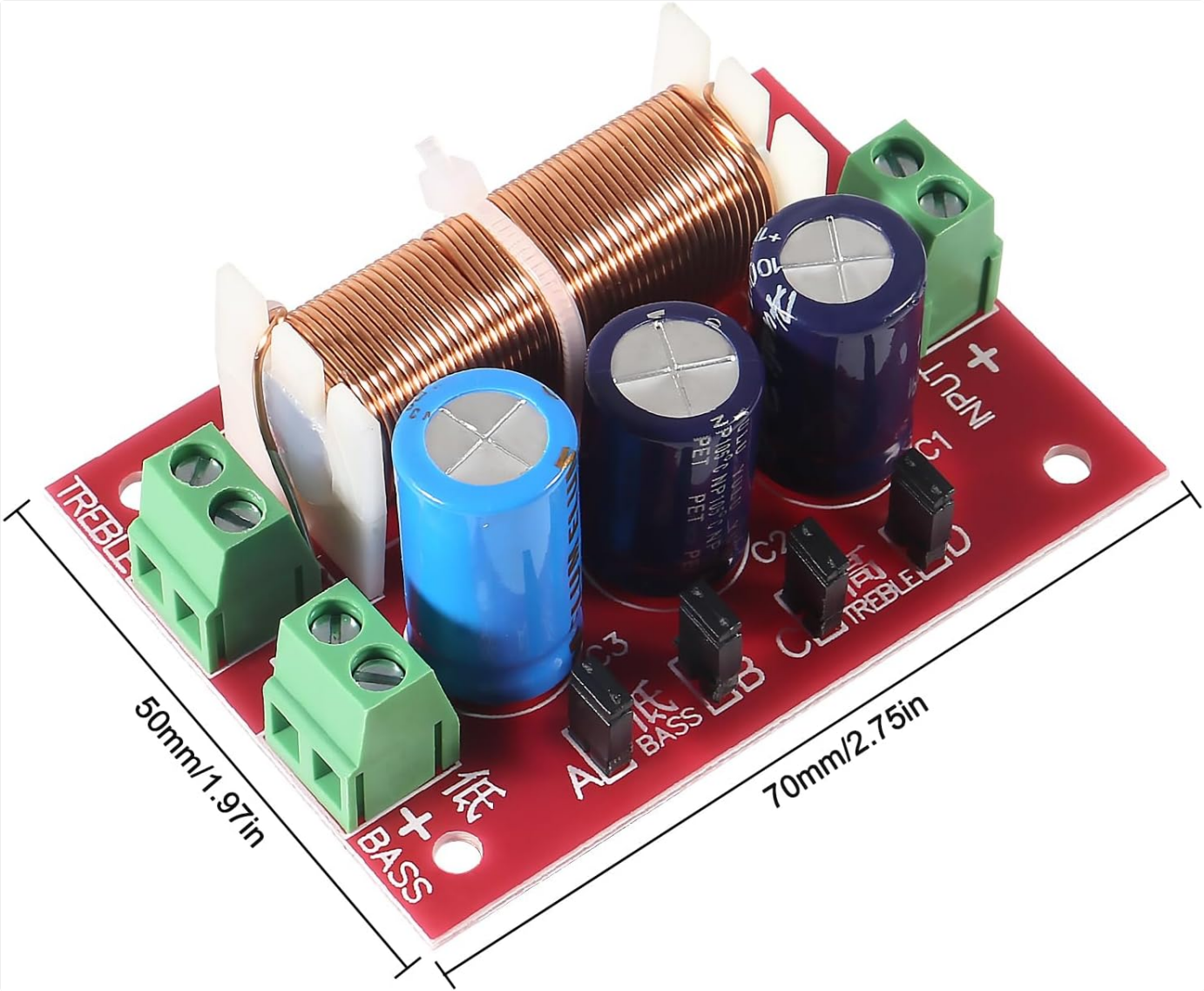


Figure 4: Dimensions of the Coliao YLY-2088 crossover filter board.

Model Name	YLY-2088
Speaker Maximum Output Power	400 watts
Suitable Speaker Impedance	4 to 16 ohms
Connectivity Technology	Wired
Material (Components)	Copper
Number of Audio Channels	2.1 (for crossover application)
Dimensions (L x W x H)	70mm x 50mm x 25mm (approx. 2.76" x 1.97" x 0.98")

Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question