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> Radio Modification Module, SI4732 Chip V2 FPC Version, Crystal Oscillator Parts, Quansheng K6 K5, Single Dual Antennae, for 2 Way Radio User Manual

ciciglow ciciglow01egd8k4im

Radio Modification Module User Manual

Model: ciciglow01egd8k4im

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the SI4732 Chip V2 FPC Version Radio Modification Module. This module is designed to enhance the functionality of Quansheng K6 and K5 two-way radios, offering improved signal reception and audio quality.

2. FEATURES

- **Enhanced Sound Quality:** Integrates a sound amplifier to address low volume issues in SSB modulation, providing clearer audio.
- **Optimized Filtering:** Features redesigned FM and HF bandpass filters for improved signal filtering and reception across various frequency bands.
- **Electrostatic Discharge (ESD) Protection:** Includes ESD tubes at the input for static protection, especially beneficial when transmitting in the UV band with dual antennae.
- **Dual Antennae Solution:** Incorporates an additional first-level bandpass filter at the antennae input, allowing for an independent HF antennae setup with an LED indicator, without compromising the radio's original UV performance.
- **Premium Components:** Utilizes high Q value chip inductors for superior filtering and selectivity.

3. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x Radio Modification Module
- 3 x Resistor

4. SETUP AND INSTALLATION

The Radio Modification Module is designed for integration into compatible two-way radios. Installation requires technical proficiency and familiarity with radio electronics. It is recommended that installation be performed by a qualified technician.

4.1. Preparation

1. Ensure the radio is powered off and disconnected from any power source.
2. Gather necessary tools, including a small screwdriver set, soldering iron, desoldering wick/pump, and anti-static wrist strap.
3. Work in a clean, well-lit, and static-free environment.

4.2. Installation Steps

1. Carefully open the casing of your Quansheng UV-K6 or UV-K5 radio. Refer to your radio's service manual for specific disassembly instructions.
2. Locate the designated area on the radio's main PCB for module installation. This module is designed to integrate with the existing circuitry.
3. Identify the connection points for the module. The FPC (Flexible Printed Circuit) version of the module will connect to specific pads on the radio's board.
4. Solder the module securely to the radio's PCB, ensuring all connection points are properly aligned and soldered. Pay close attention to the orientation of the module.
5. If utilizing the dual antennae solution, connect the independent HF antennae via feeder and SMA head as per the module's design.
6. Verify all solder joints for proper connection and absence of short circuits.
7. Carefully reassemble the radio casing.

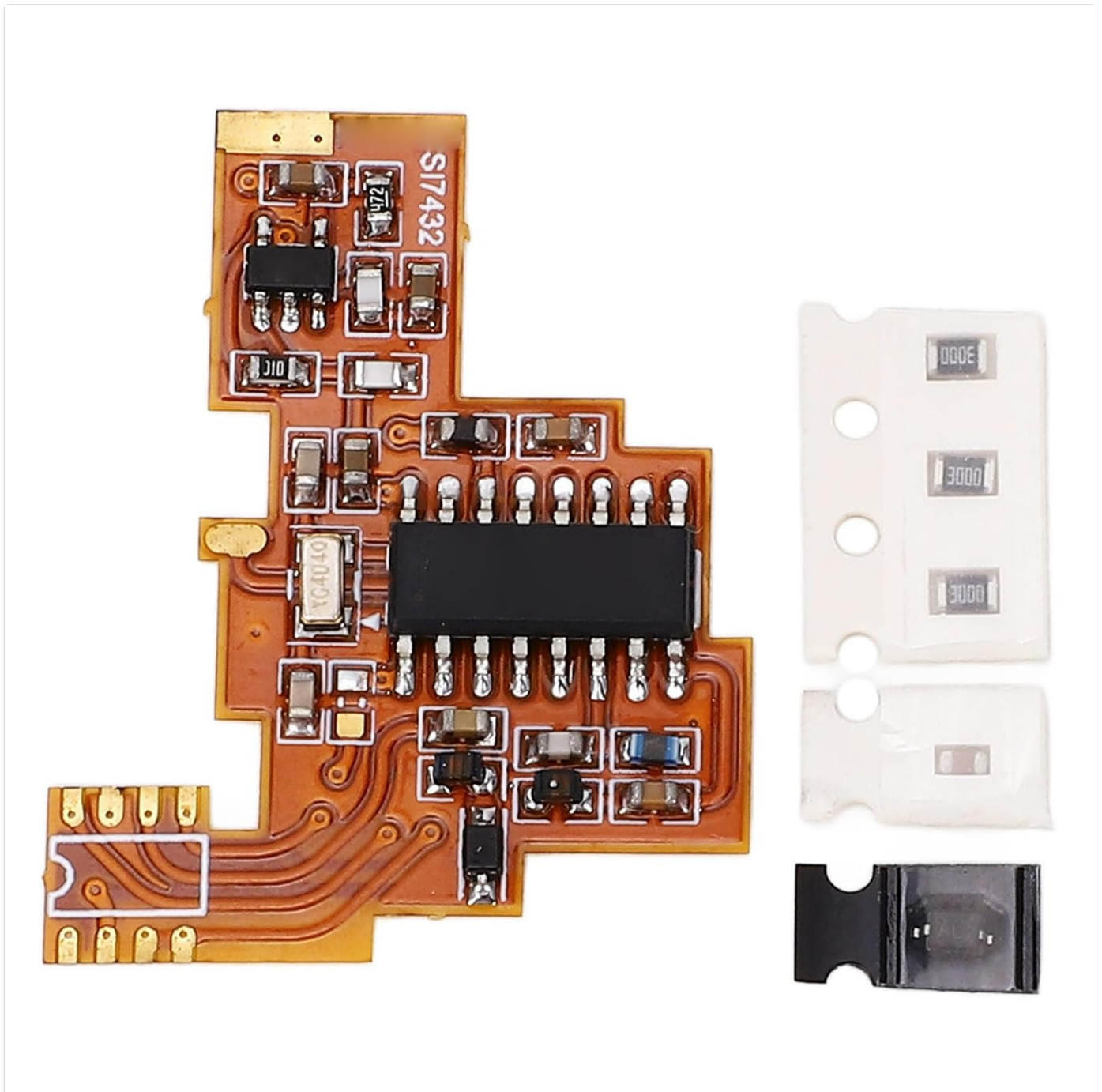
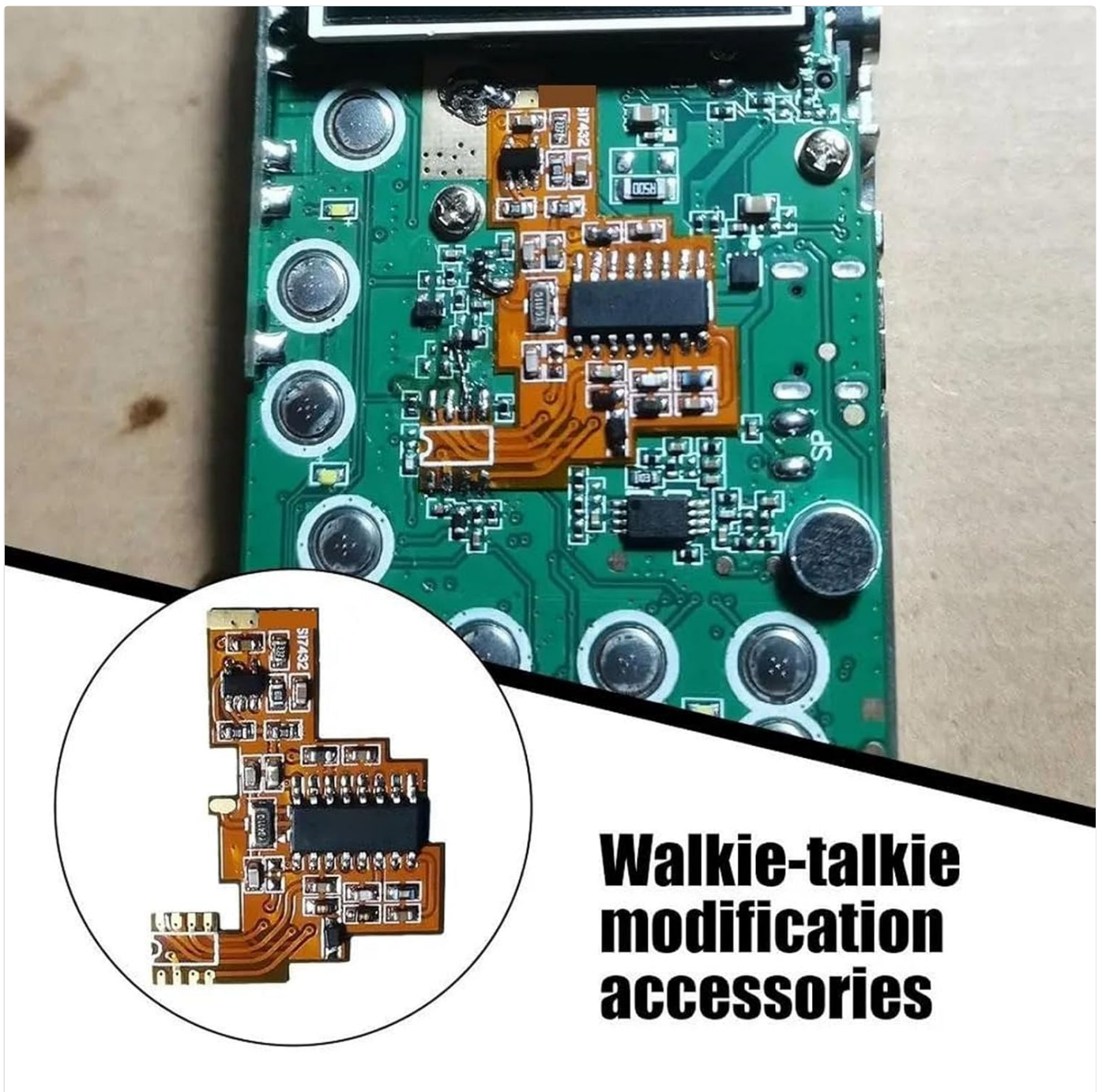


Figure 1: Overview of the SI7432 Chip V2 FPC Version Radio Modification Module, showing its components and flexible printed circuit board.



Walkie-talkie modification accessories

Figure 2: The radio modification module integrated into a walkie-talkie's internal circuitry, demonstrating its compact fit.

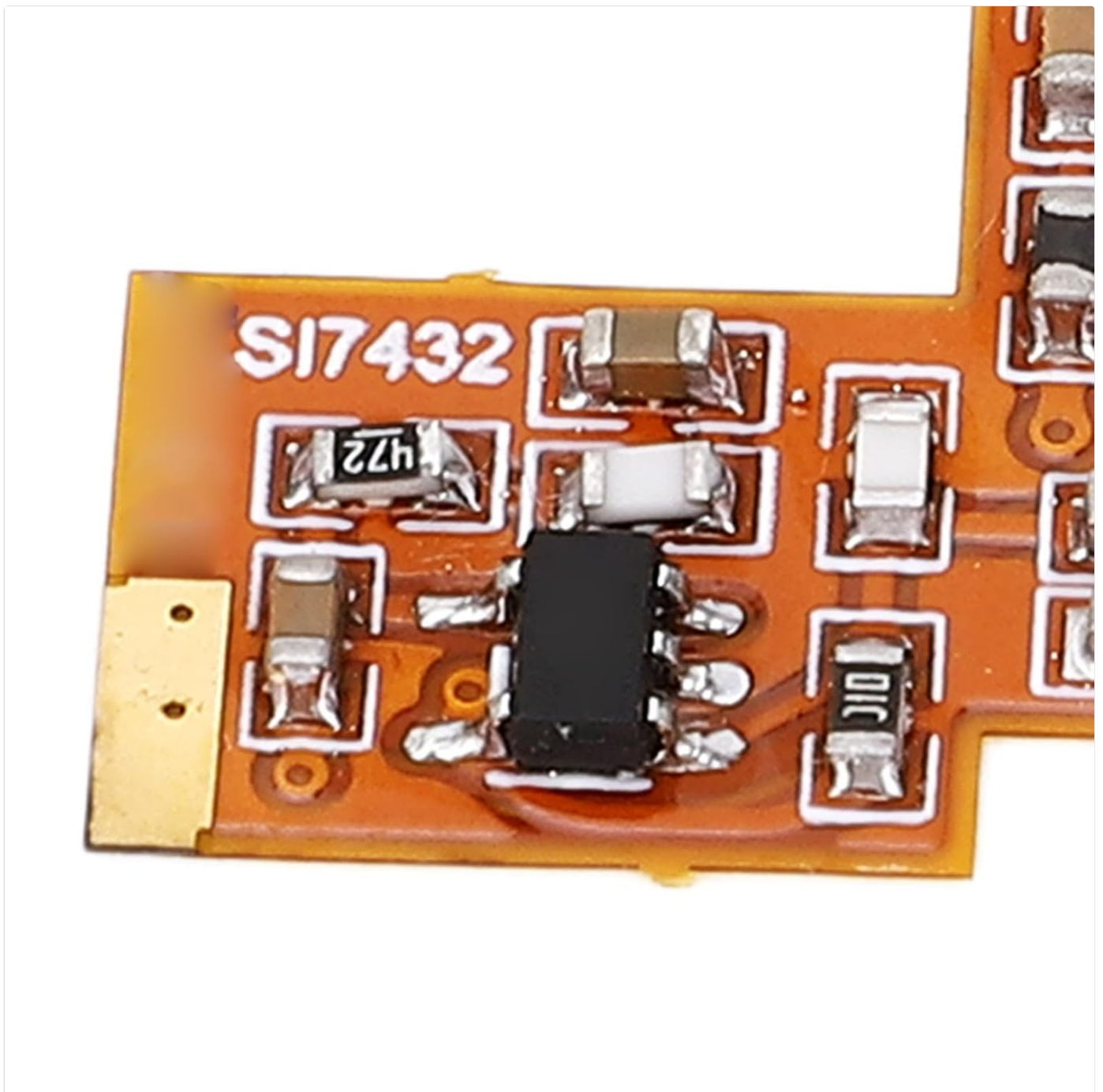


Figure 3: A detailed view of the SI7432 chip and surrounding components on the modification module, highlighting the integrated circuitry.

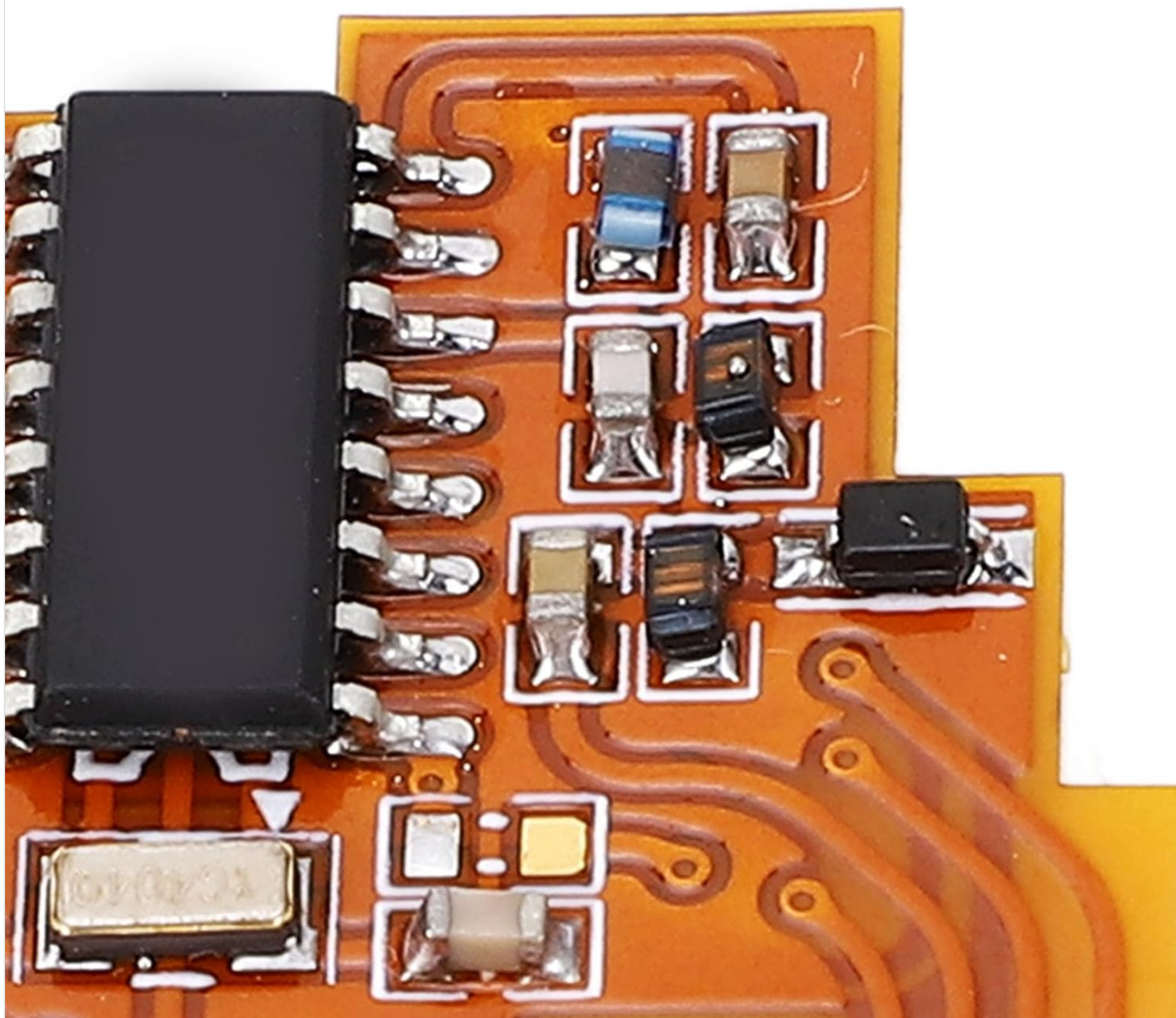


Figure 4: Close-up of various electronic components on the module, including resistors and capacitors, demonstrating the quality of assembly.

5. OPERATING INSTRUCTIONS

Once the module is successfully installed, its functions are integrated into the radio's existing operation. The primary improvements will be noticeable in audio clarity and reception capabilities, particularly for SSB and HF bands.

5.1. Audio Enhancement

The integrated sound amplifier will automatically improve the volume and clarity of SSB modulation. No specific user action is required to activate this feature.

Sound Performance Improvement

This radio modification module adds sound amplifier to effectively solve the problem of low volume of SSB single sideband reception and significantly improve the sound quality.

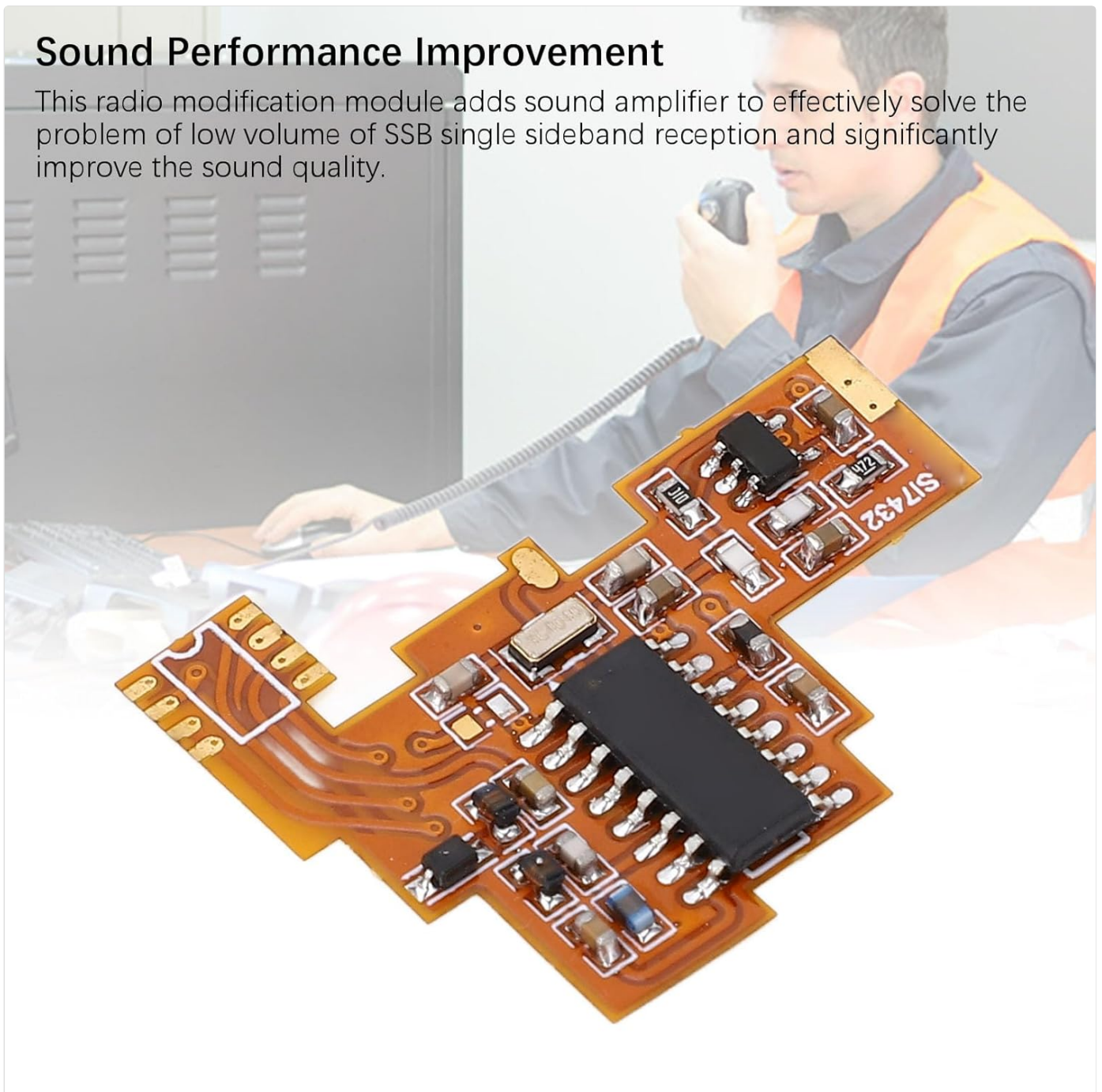


Figure 5: Visual representation of the module's contribution to sound performance improvement, showing the module in the foreground with a radio user in the background.

5.2. Bandpass Filter Optimization

The redesigned FM and HF bandpass filters work passively to optimize signal reception. Users may experience clearer signals and reduced interference on these bands.

- If the radio requires internal servicing, ensure it is performed by a qualified technician to avoid damaging the installed module.

7. TROUBLESHOOTING

If you encounter issues after installing the module, consider the following:

Problem	Possible Cause	Solution
No improvement in SSB audio volume.	Incorrect soldering or connection of the module.	Re-check all solder joints and connections. Ensure the module is correctly seated.
Worse reception on FM/HF bands.	Damage to bandpass filters during installation or incorrect module integration.	Verify the integrity of the module and its connections. Ensure no components were damaged.
Radio not functioning after installation.	Short circuit, incorrect wiring, or component damage.	Immediately disconnect power. Carefully inspect all connections for shorts. If unable to resolve, seek professional assistance.

If troubleshooting steps do not resolve the issue, please contact customer support or a qualified radio technician.

8. SPECIFICATIONS

Feature	Detail
Item Type	Radio Modification Module
Material	PCB
Chip	SI4732
Application	For Quansheng UV-K6, UV-K5 Radio (Single Antennae and Dual Antennae)
Model Number	ciciglow01egd8k4im
Package Dimensions	2.76 x 1.97 x 0.39 inches
Weight	0.35 ounces

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the seller's policy or contact the manufacturer directly. Keep your purchase receipt for any warranty claims.

Manufacturer: ciciglow

Brand: ciciglow

ASIN: B0D8WC5GPC

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