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Model: SKRHABE010

1. PRODUCT OVERVIEW

The YHNNH SKRHABE010 is a compact 5-way direction tact switch designed for surface-mount (SMD) applications. This component functions as a miniature joystick, providing directional input (Up, Down, Left, Right) and a central push-button action. It is commonly used in small electronic devices, handheld equipment, and digital interfaces requiring multi-directional control in a limited space.



Image 1.1: A collection of YHNNH SKRHABE010 5-way tact switches, showcasing their compact design and multiple units.

2. SETUP AND INSTALLATION

This tact switch is designed for surface-mount soldering onto a printed circuit board (PCB). Proper soldering techniques are crucial for reliable operation.

2.1. Pin Configuration

The SKRHABE010 features multiple pins for electrical connection, typically including common ground, and individual pins for each of the five directional inputs (Up, Down, Left, Right, Center Push).



Image 2.1: Side view of two SKRHABE010 switches, illustrating the arrangement of their surface-mount pins.

2.2. Soldering Instructions

1. **Prepare PCB:** Ensure the PCB pads are clean and free of oxidation.
2. **Position Switch:** Carefully align the switch with the corresponding pads on the PCB.
3. **Solder Pins:** Apply appropriate solder paste and reflow according to standard SMD soldering profiles, or use a fine-tipped soldering iron for manual soldering. Ensure all pins make good electrical contact and there are no solder bridges.
4. **Inspect:** Visually inspect all solder joints for quality.

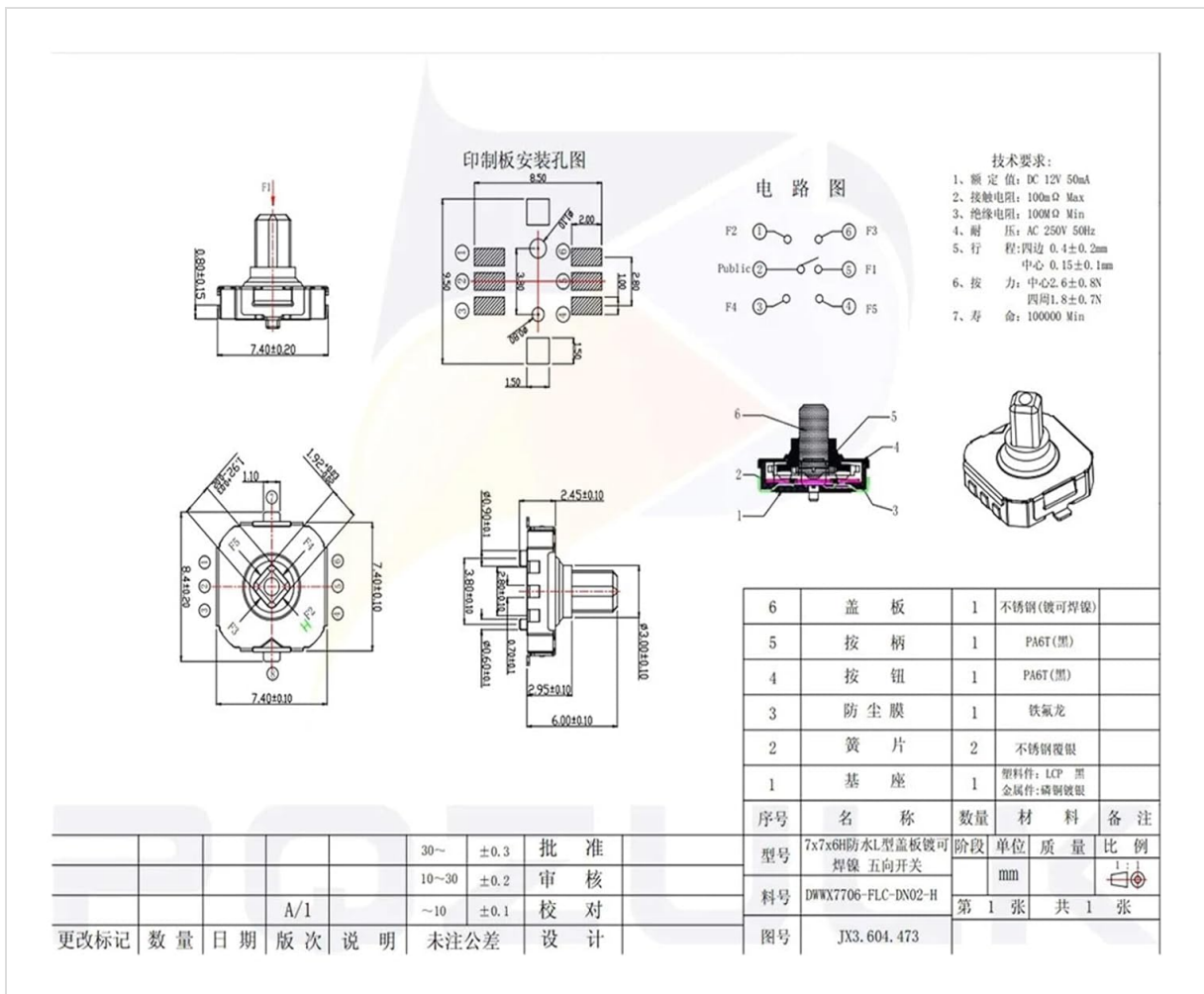


Image 2.2: Technical drawing and schematic diagram for the SKRHABE010 switch, detailing its dimensions and electrical connections for PCB integration.

3. OPERATING THE SWITCH

The SKRHABE010 provides five distinct input actions:

- **Up Direction:** Gently push the joystick stem upwards.
- **Down Direction:** Gently push the joystick stem downwards.
- **Left Direction:** Gently push the joystick stem to the left.
- **Right Direction:** Gently push the joystick stem to the right.
- **Center Push:** Press the joystick stem directly downwards.

Each action corresponds to a momentary electrical contact closure, which can be detected by the connected microcontroller or circuit.



Image 3.1: A close-up view of two SKRHABE010 switches, highlighting the central joystick stem for directional and push inputs.

4. MAINTENANCE

The YHNNH SKRHABE010 tact switch is a sealed component and generally requires no routine maintenance. To ensure longevity:

- Avoid exposing the switch to excessive dust, moisture, or corrosive environments.
- Do not apply excessive force to the joystick stem, as this can damage the internal mechanism.
- Clean the exterior with a dry, soft cloth if necessary. Avoid using liquid cleaners directly on the switch.

5. TROUBLESHOOTING

If the switch is not functioning as expected, consider the following:

- **No Response:**
 - Check solder joints for cold joints or solder bridges.
 - Verify correct pin orientation and connection to the PCB.

- Ensure the connected circuit or microcontroller is correctly configured to read the switch inputs.

- **Intermittent Response:**

- Inspect for loose connections or hairline cracks in solder.
- Ensure the switch is securely mounted and not experiencing physical stress.

- **Stuck Button:**

- Check for foreign debris obstructing the button mechanism.
- Ensure the switch is not installed in a way that applies constant pressure to the stem.

6. SPECIFICATIONS

YHNNH SKRHABE010 Technical Specifications

| Feature | Detail |
|----------------------|--|
| Model Number | SKRHABE010 |
| Switch Type | 5-Way Direction Tact Switch (Push Button Joystick) |
| Mounting Type | SMD (Surface Mount Device) |
| Dimensions (Approx.) | 7.5mm x 7.5mm x 5mm (0.30in x 0.30in x 0.20in) |
| Current Rating | 1A |
| Material | Copper (contacts) |
| Certification | RoHS, CE |

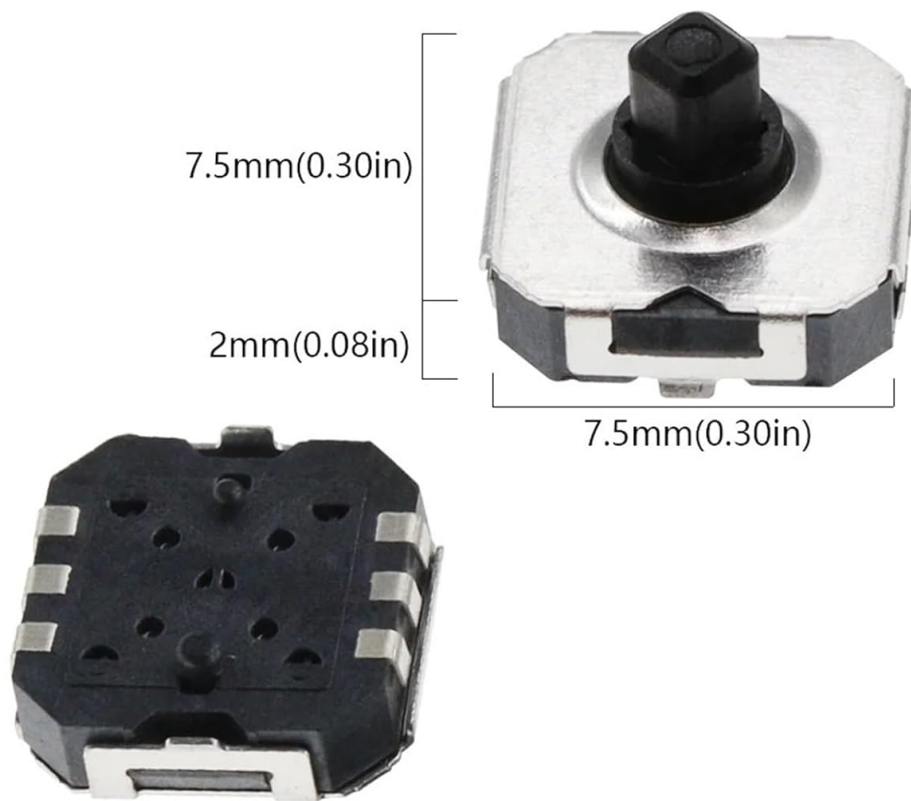


Image 6.1: Detailed dimensions of the SKRHABE010 switch, indicating its compact size for integration into electronic designs.

7. WARRANTY AND SUPPORT

7.1. Warranty Information

This product comes with a **365-day warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

7.2. Technical Support

For technical assistance or inquiries regarding the YHNNH SKRHABE010 switch, please refer to the seller's contact information on the platform where the product was purchased. Ensure you have your purchase details and model number ready when contacting support.