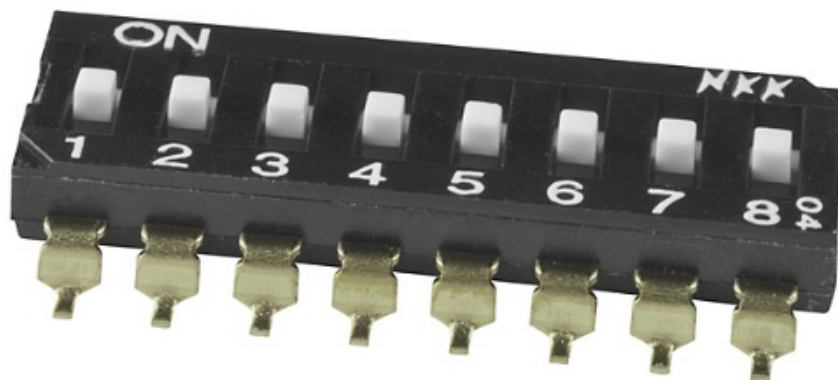


Contents [[hide](#)]

- [1 nKK JS02, JS04 Ultra-Miniature SMT DIP Slides](#)
- [2 General Specifications](#)
- [3 Distinctive Characteristics](#)
- [4 TYPICAL SWITCH ORDERING EXAMPLE](#)
- [5 TYPICAL SWITCH DIMENSIONS](#)
- [6 PACKAGING](#)
- [7 FAQs](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)



nKK JS02, JS04 Ultra-Miniature SMT DIP Slides



General Specifications

Electrical Capacity (Resistive Load)

- **Switching Rating:** 25mA @ 24V DC
- **Nonswitching Rating:** 0.1A @ 50V DC

Other Ratings

JS02 Extended Actuator / JS04 Flush Actuator

- **Contact Resistance:** 50 milliohms maximum 50 milliohms maximum
- **Insulation Resistance:** 100 megohms minimum @ 500V DC 100 megohms minimum @ 100V DC
- **Dielectric Strength:** 500V AC minimum for 1 minute minimum 300V AC minimum for 1 minute minimum
- **Mechanical Life:** 2,000 operations minimum 2,000 operations minimum
- **Electrical Life:** 2,000 operations minimum 2,000 operations minimum
- **Total Travel:** .031" (0.8mm) .026" (0.65mm)

Materials & Finishes

JS02 Extended Actuator /JS04 Flush Actuator

- **Actuator:** Glass fiber reinforced polyamide Glass fiber reinforced polyamide
- **Cover:** Glass fiber reinforced polyamide (UL94V-0) Glass fiber reinforced polyamide (UL94V-0)
- **Base:** Glass fiber reinforced polyamide (UL94V-0) Glass fiber reinforced polyamide (UL94V-0)
- **Contacts:** Beryllium copper with gold plating Copper alloy with gold plating
- **Terminals:** Brass with gold plating Brass with gold plating

Environmental Data

- **Operating Temp Range:** JS02 Extended Actuator: -20°C through +70°C (-4°F through +158°F)
- **JS04 Flush Actuator:** -30°C through +85°C (-22°F through +185°F)
- **Humidity:** 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
- **Vibration:** 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency

range & returning in 1 minute; 3 right angled directions for 2 hours

- **Shock:** 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

- **Soldering:** Reflow Soldering Recommended. See Profile A in Supplement section.
- **Manual Soldering:** See Profile A in Supplement section.
- **Note:** Switches are packaged in OFF position and should be soldered in OFF position.
- **Cleaning:** These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

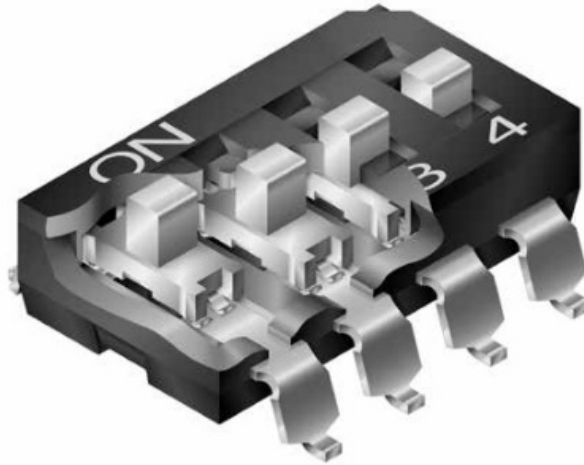
Flammability Standards: UL 94V-0 rated cover & base The JS Series slides have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current circuit. When used as intended in a low-voltage, low-current circuit, the results do not produce hazardous energy.

Distinctive Characteristics

Extended and flush slide actuators available.

- Twin sliding contact mechanism with self-cleaning action (JS02) provides smooth actuation and produces high contact reliability.
- Gold plated contacts prevent oxidation and sulfide effect and provide stable contact resistance.
- Use of self-extinguishing UL94V-0 certified material in cover and base provides high arc resistance and high insulation resistance.
- Gull-wing terminals ensure secure PCB mounting and prevent dislodging during vapor phase and infrared convection reflow soldering.
- Terminal spacing conforms to standard PCB grid.
 - For JS02: .100" (2.54mm)
 - For JS04: .050" (1.27mm)
- End-to-end stackable.

- Packaged in tape-reel or stick-tube. Tape-reel packaging meets EIA-481-D Standard.



Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)

Actual Sizes

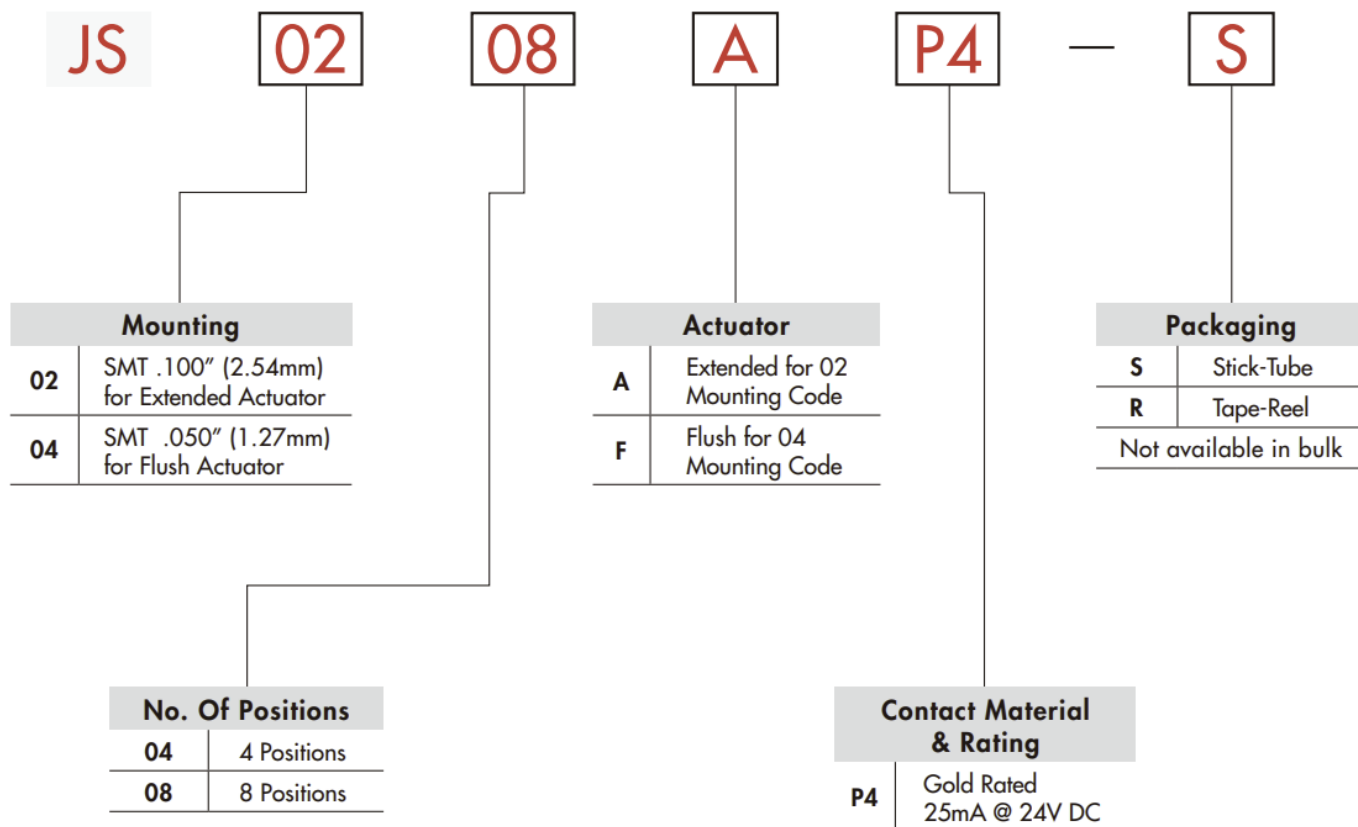
JS02



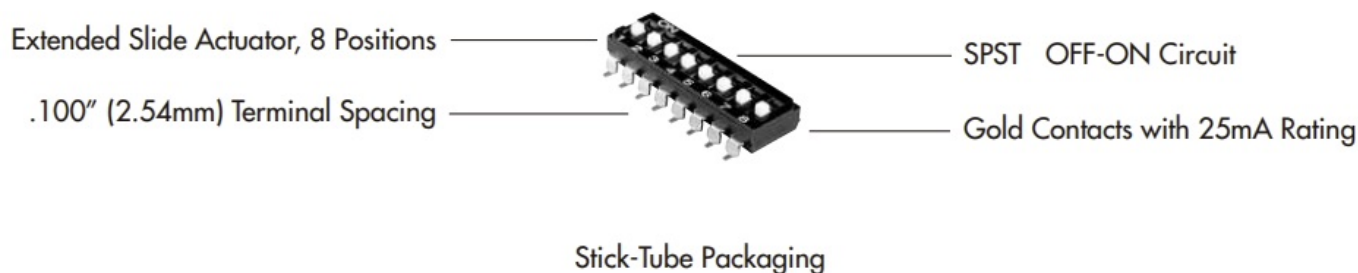
JS04



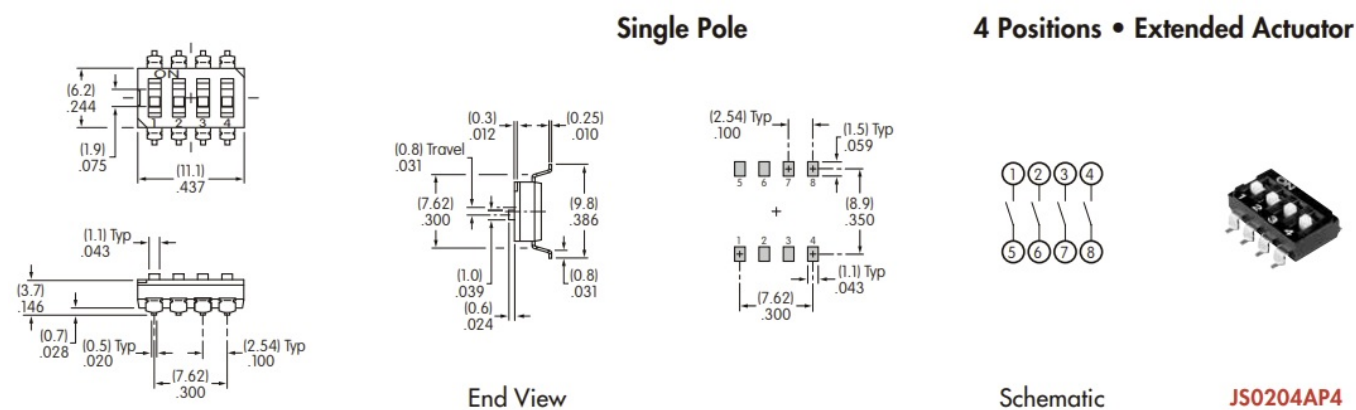
TYPICAL SWITCH ORDERING EXAMPLE



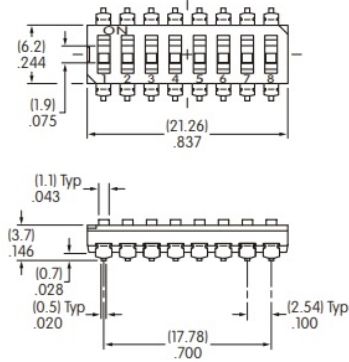
DESCRIPTION FOR TYPICAL ORDERING EXAMPLE JS0208AP4-S



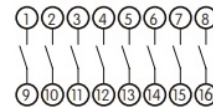
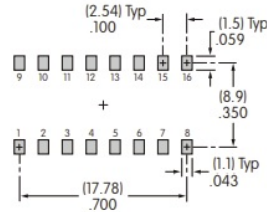
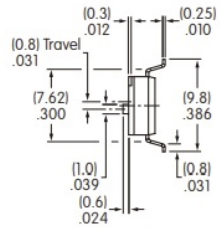
TYPICAL SWITCH DIMENSIONS



8 Positions • Extended Actuator



End View

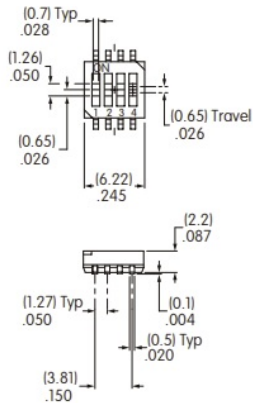


Schematic

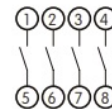
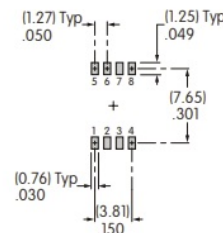
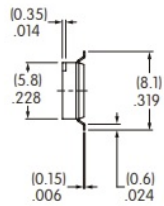
JS0208AP4

Single Pole

4 Positions • Flush Actuator



End View

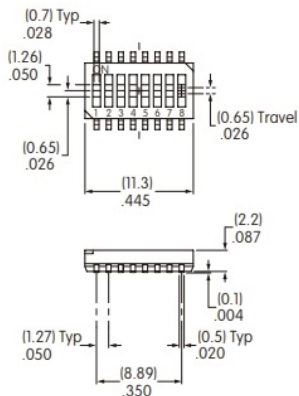


Schematic

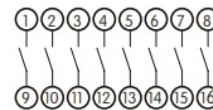
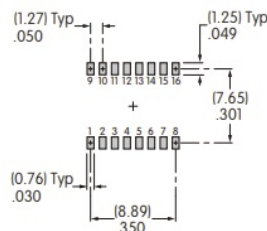
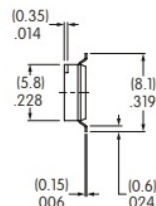
JS0404FP4

Single Pole

8 Positions • Flush Actuator



End View



Schematic

JS0408FP4

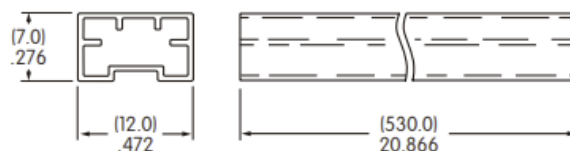
PACKAGING

Stick-Tube Packaging

Switches are packaged in OFF position. Switches are not available in bulk and must be ordered in the following increments:

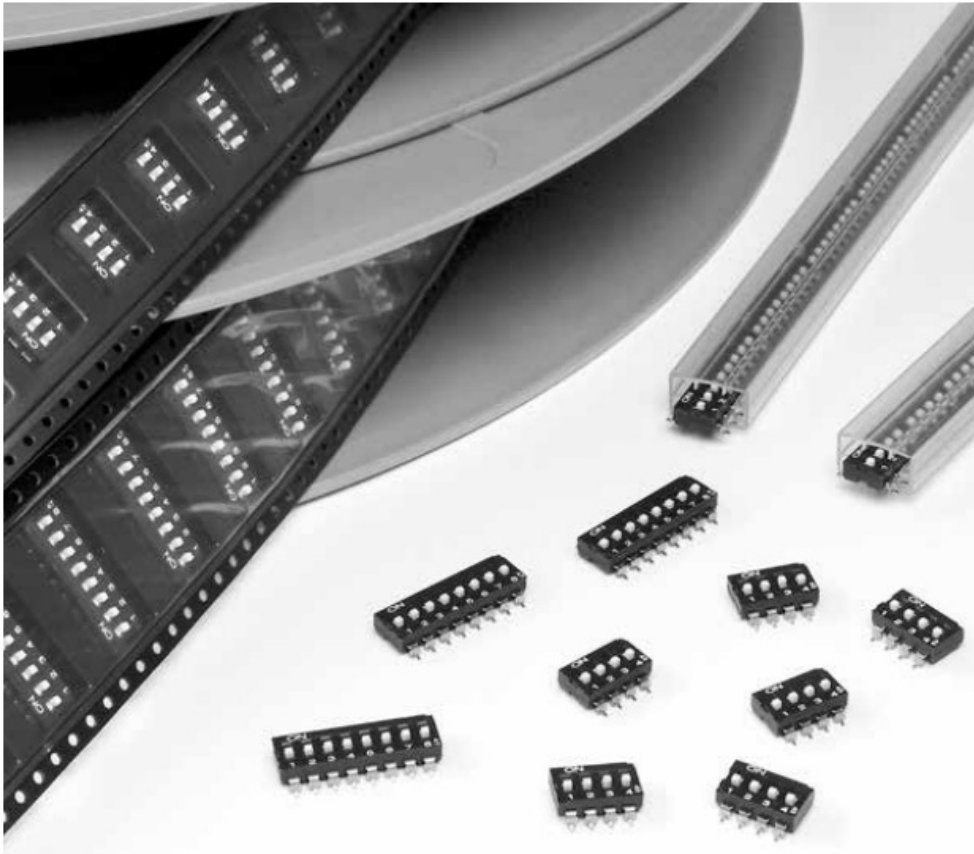
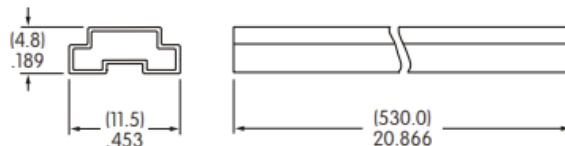
Extended Actuator

JS0204AP4-S: 46 pieces per stick-tube JS0208AP4-S: 24 pieces per stick-tube



Flush Actuator

JS0404FP4-S: 80 pieces per stick-tube JS0408FP4-S: 45 pieces per stick-tube

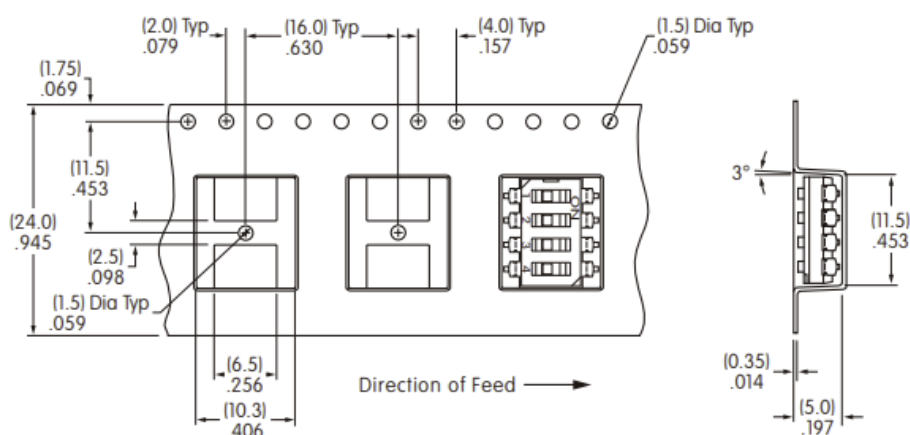


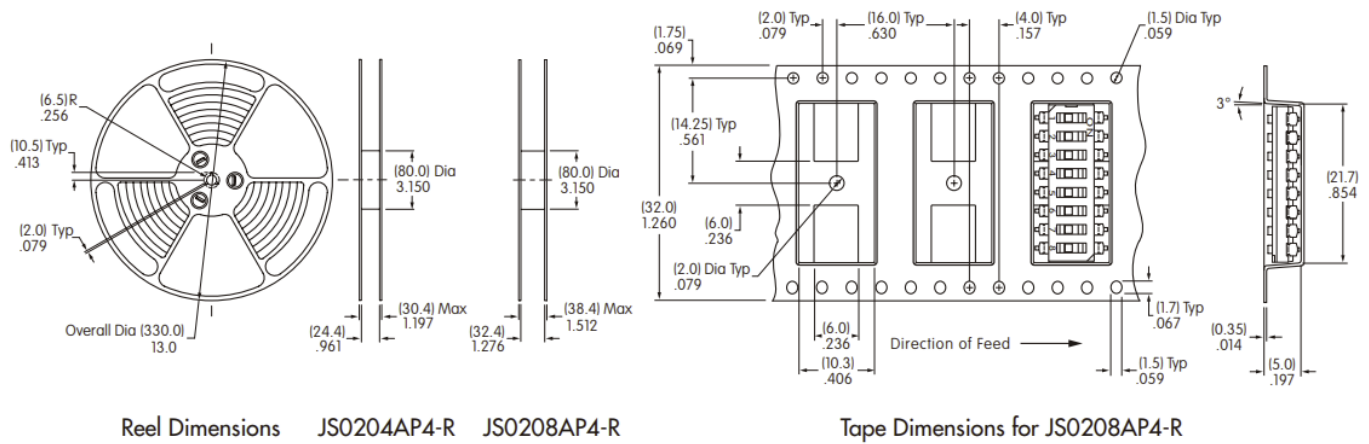
Tape-Reel Packaging for Extended Actuator

Switches are packaged in OFF position. Switches are not available in bulk and must be ordered in the following increments: JS0204AP4-R: 500 pieces per tape-reel

JS0208AP4-R: 500 pieces per tape-reel Minimum Leader Length: 15.75" (400mm)

Minimum Trailer Length: 6.3" (160mm) Tape-reel packaging meets EIA-481-D Standard.



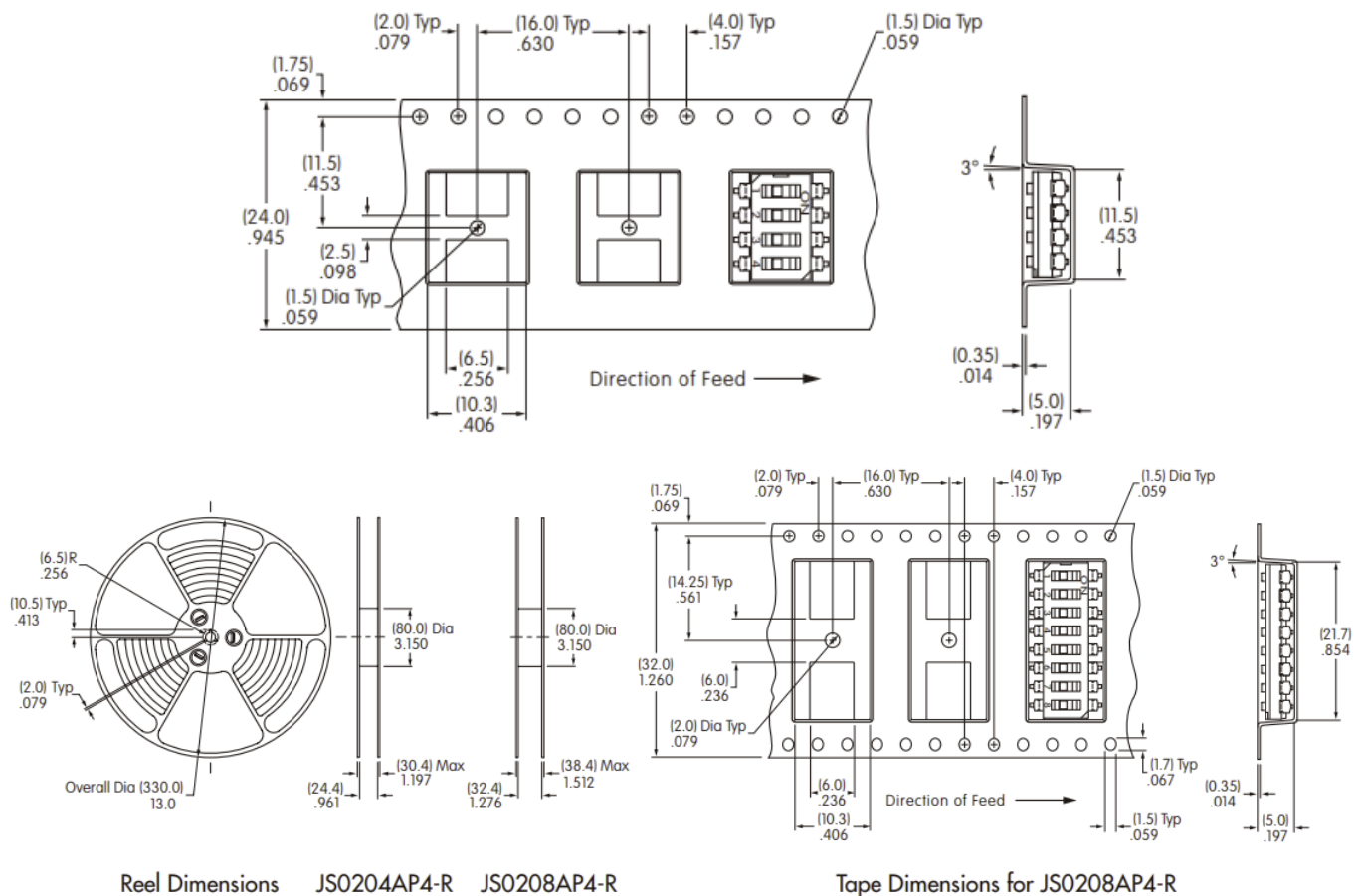


Tape-Reel Packaging for Flush Actuator

Switches are packaged in OFF position. Switches are not available in bulk and must be ordered in the following increments:

- JS0404FP4-R: 2,000 pieces per tape-reel
- JS0408FP4-R: 2,000 pieces per tape-reel
- Minimum Leader Length: 15.75" (400mm)
- Minimum Trailer Length: 6.3" (160mm)

Tape-reel packaging meets EIA-481-D Standard.



- www.nkk.com

FAQs

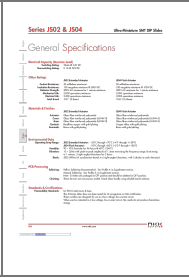
Q: What should I do if the switch malfunctions?

A: If the switch malfunctions, first check for any loose connections or debris. If the issue persists, consider replacing the switch.

Q: Can the switch be used in high-voltage circuits?

A: No, these switches are designed for use in low-voltage, low-current circuits only. Do not use them in high-voltage applications to avoid safety hazards.

Documents / Resources

	nKK JS02, JS04 Ultra-Miniature SMT DIP Slides [pdf] Owner's Manual JS02, JS04, JS02 JS04 Ultra-Miniature SMT DIP Slides, JS02 JS04, Ultra-Miniature SMT DIP Slides, SMT DIP Slides, DIP Slides, Slides
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References

- [User Manual](#)

■ nKK

◆ DIP Slides, JS02, JS02 JS04, JS02 JS04 Ultra-Miniature SMT DIP Slides, JS04, nKK, Slides, SMT DIP Slides, Ultra-Miniature SMT DIP Slides

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