

KSC5 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 5.6 mm Height Hard Actuator and Rocker Option



Description

The KSC5 series tact switches with rocker option for SMT are designed to be smaller and more flexible than many other switch technologies. They are used mostly in industrial, consumer and automotive applications, give users a positive adaptable tactile feeling and are IP50 rated, 5.6mm hard actuator switches.

Features & Benefits

- Positive adaptable tactile feeling
- Hard actuator 5.6mm high
- IP50

Applications

- Industrial electronics
- Consumer products
- Automotive

Specifications

| | |
|----------------------------|--|
| Function | Momentary action |
| Contact Arrangement | 1 make contact = SPST, N.O. |
| Terminals | J bend & Gullwing type for SMT |
| Sealing | IP50 |
| Packaging | Switches delivered on continuous tape & reels of 1,000 pieces, dimensions according to EIA RS-481/ IEC 60286-3 standard External diameter 330 ± 2 mm |

Electrical Characteristics

| | Silver | Gold |
|------------------------------|-----------------------------|--------|
| Max. Power | 1 VA | 0.2 VA |
| Max. Voltage | 32 VDC | 32 VDC |
| Min. Voltage | 20 mV | 20 mV |
| Max. Current | 50 mA | 10 mA |
| Min. Current | 1 mA | 0.1 mA |
| Dielectric Strength | (50 Hz, 1 min.): ≥ 250 Vrms | |
| Contact Resistance | ≤ 100 mΩ | |
| Insulation Resistance | (100 V): ≥ 1 000 MΩ | |
| Bounce Time | ≤ 1 ms | |

Environmental Characteristics

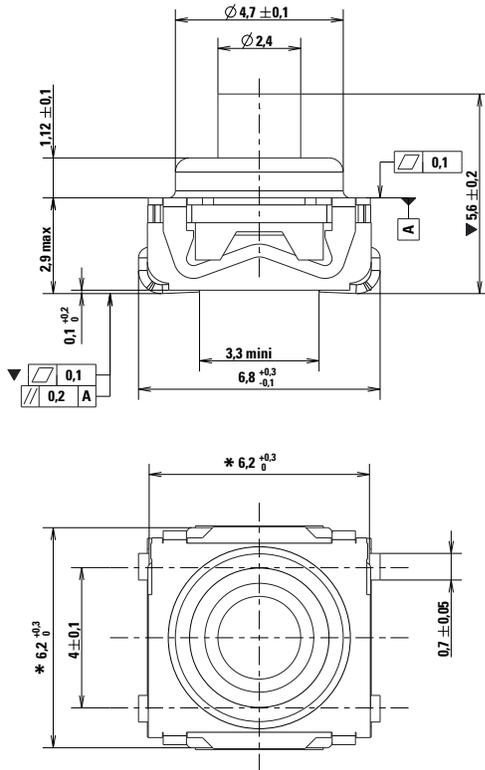
| | Silver | Gold |
|------------------------------|---------------|----------------|
| Operating Temperature | -40°C to 85°C | -40°C to 125°C |
| Storage Temperature | -55°C to 85°C | -55°C to 125°C |

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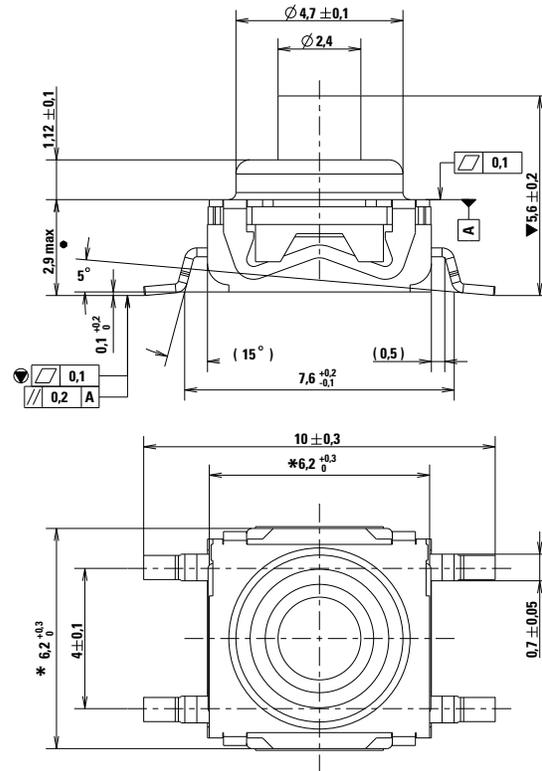
Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 5.6 mm Height Hard Actuator and Rocker Option



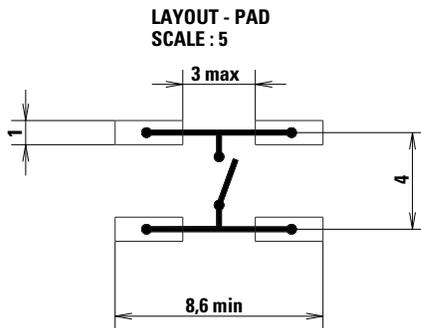
J Dimensions (mm)



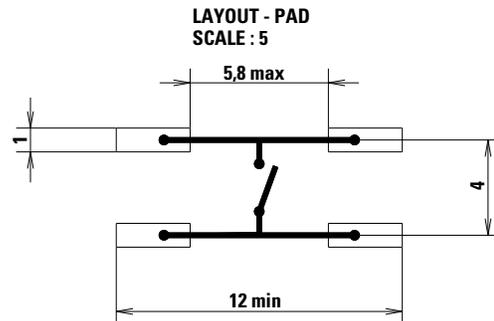
G Dimensions (mm)



Pad Layout for J Versions



Pad Layout for G Versions



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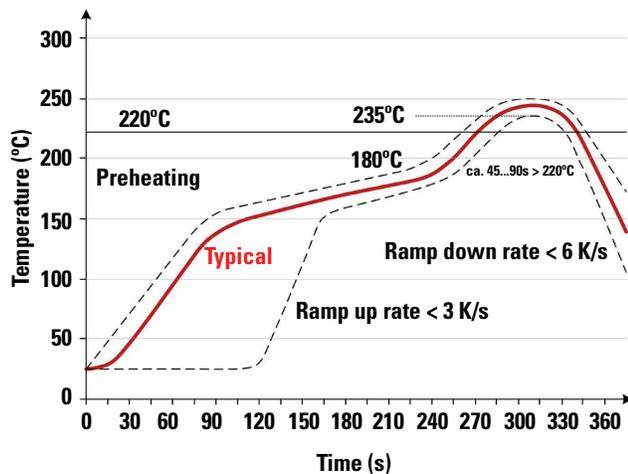
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Mechanical Characteristics

| Part # | Operating Force axial FA N (grams) | Operating Force Lateral FL N (grams) $\pm 30\%$ | Travel to Make Axial (mm) | Travel to Make Lateral (mm) | Life Expectancy Cycles, Axial | Life Expectancy Cycles, Lateral |
|--------|------------------------------------|---|---------------------------|-----------------------------|-------------------------------|---------------------------------|
| KSC521 | 2 ± 0.5 | 1.2 - 2.6 | 0.25 ± 0.15 | 0.5 ± 0.25 | 100,000 | 10,000 |
| KSC541 | 3 ± 0.75 | 1.8 - 3.8 | 0.25 ± 0.15 | 0.5 ± 0.25 | 100,000 | 10,000 |

Soldering Profile



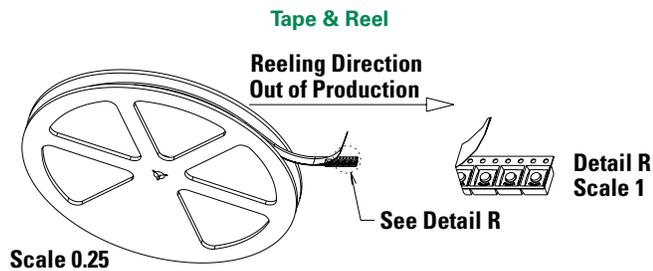
Note: Up to 2 reflow cycles in accordance with the above temperature profile

Soldering process: Depending on the application, this component is suited to the following methods:

- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

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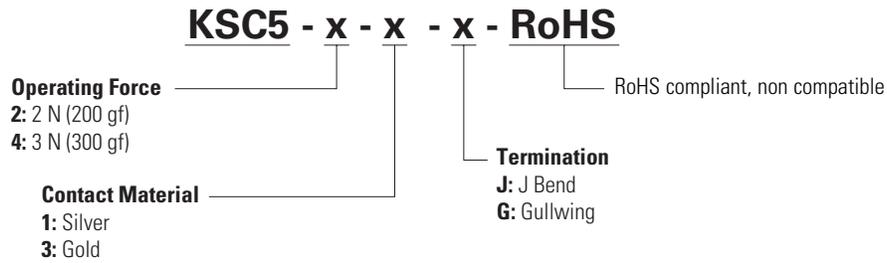


Packaging Details

| Type | Tape & reel |
|------------------------------|--|
| Number of Parts in Packaging | 1,000 |
| Other Information | Tape and reel per EIA 481 |
| Transport Conditions | According to specification NF H00-060 |

Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. However, please note that not all the combinations of these options are feasible. For any part number different from those listed below, please consult your local representative.



Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipment. Please contact customer service for the contractual specification package.

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