

# KSC SLT Series

Long Travel Soft Sound Tactile Switch for SMT 6.2 x 6.2 mm,  
with 5.0 mm Height Soft Actuator



## Description

The KSC SLT series of tactile switches for SMT offers long travel and soft sound. The 5.0 mm high momentary action tactile switches feature a soft actuator and are IP40 rated. The switches are available with 2.4N or 3.5N operating force and have a lifespan of 200,000 cycles, providing good tactile feeling. They are ideal for automotive interior, front panel and instrumentation applications.

## Features & Benefits

- Long travel
- Soft sound
- IP40
- J & G terminations
- Tape & reel
- Compatible with lead free reflow soldering process of SMT devices
- Low halogen, RoHS and REACH compliant

## Applications

- Automotive interior
- Front panel
- Instrumentation

## Specifications

|                            |                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>            | Momentary                                                                                                               |
| <b>Contact Arrangement</b> | 1 make contact = SPST, N.O.                                                                                             |
| <b>Terminals</b>           | J bend & Gullwing type for SMT                                                                                          |
| <b>Packaging</b>           | In reels of 1,000 pieces.<br>Dimension of reels according to EIA RS481 or IEC 2863.<br>External diameter 330 mm ± 2 mm. |

## Electrical Characteristics

|                                          | Silver                                                | Gold      |
|------------------------------------------|-------------------------------------------------------|-----------|
| <b>Switching Power Max. / Max. Power</b> | 1 VA                                                  | 0.2 VA    |
| <b>Min. / Max. Voltage</b>               | 20 mV - 32VDC                                         |           |
| <b>Min. / Max. Current</b>               | 1 - 50 mA                                             | 1 - 10 mA |
| <b>Dielectric Strength</b>               | ≥ 250 Vrms                                            |           |
| <b>Contact Resistance</b>                | < 100 mΩ                                              |           |
| <b>Insulation Resistance</b>             | Initial measurement: ≥ 1GΩ<br>After damp heat: ≥ 10MΩ |           |
| <b>Bounce Time</b>                       | < 5 ms                                                |           |

## Environmental Characteristics

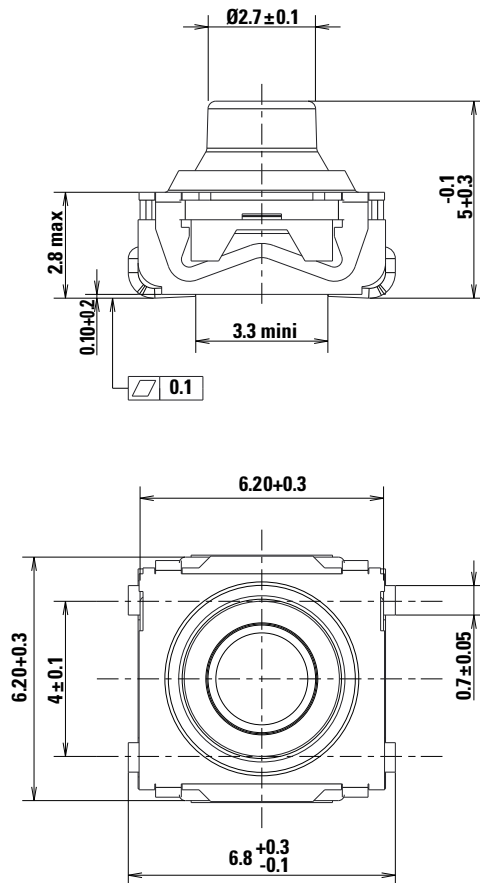
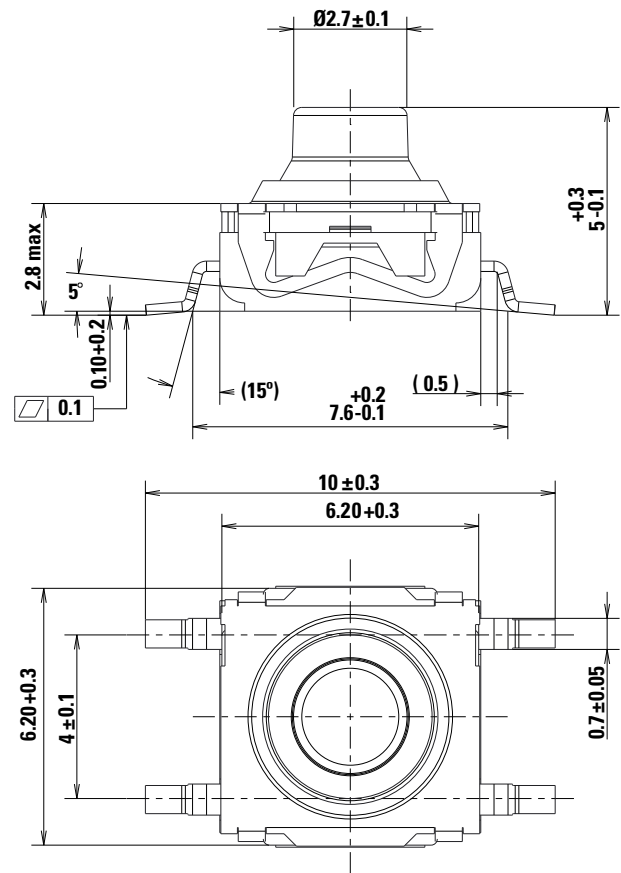
|                              | Silver        | Gold           |
|------------------------------|---------------|----------------|
| <b>Operating Temperature</b> | -40°C to 85°C | -40°C to 125°C |
| <b>Storage Temperature</b>   |               |                |

## Process

|                  |                                                        |
|------------------|--------------------------------------------------------|
| <b>Soldering</b> | Compatible with the lead free reflow soldering process |
|------------------|--------------------------------------------------------|

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**Dimensions (mm)****J J Bend****G Gullwing**

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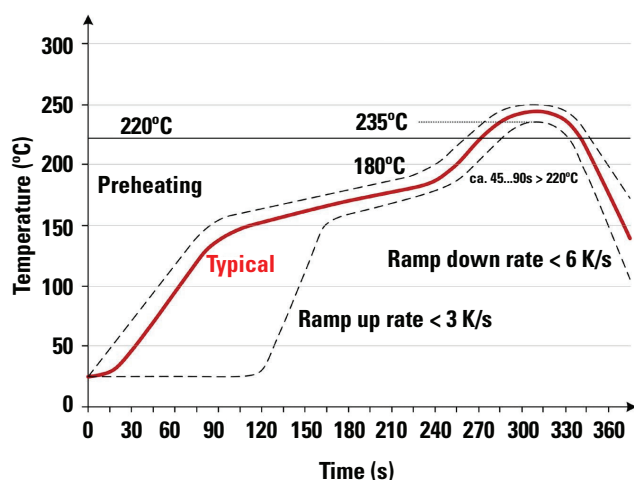


## Mechanical Characteristics

| Part #      | Force (N) | Life Cycles | Travel (mm) |
|-------------|-----------|-------------|-------------|
| KSC SLT 221 | 2.4 ± 0.7 | 200,000     | 1.35 ± 0.25 |
| KSC SLT 223 | 2.4 ± 0.7 | 200,000     | 1.35 ± 0.25 |
| KSC SLT 241 | 3.5 ± 0.9 | 200,000     | 1.35 ± 0.25 |
| KSC SLT 243 | 3.5 ± 0.9 | 200,000     | 1.35 ± 0.25 |

Note: Max applied force 40N.

## Soldering Profile

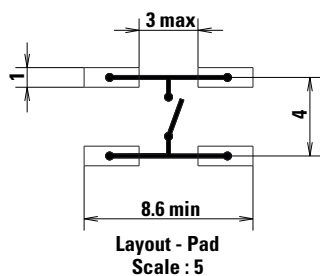


Note: Up to 2 reflow cycles in accordance with the above temperature profile

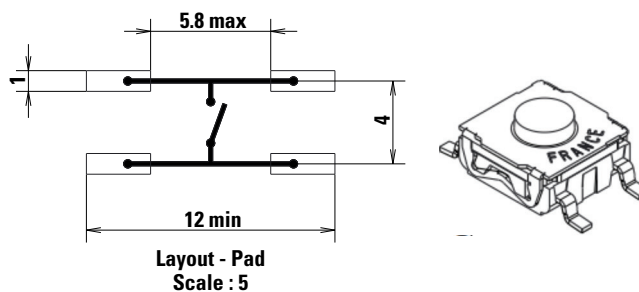
Soldering process: Depending on the application, this component is suited to the following methods:

- 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.

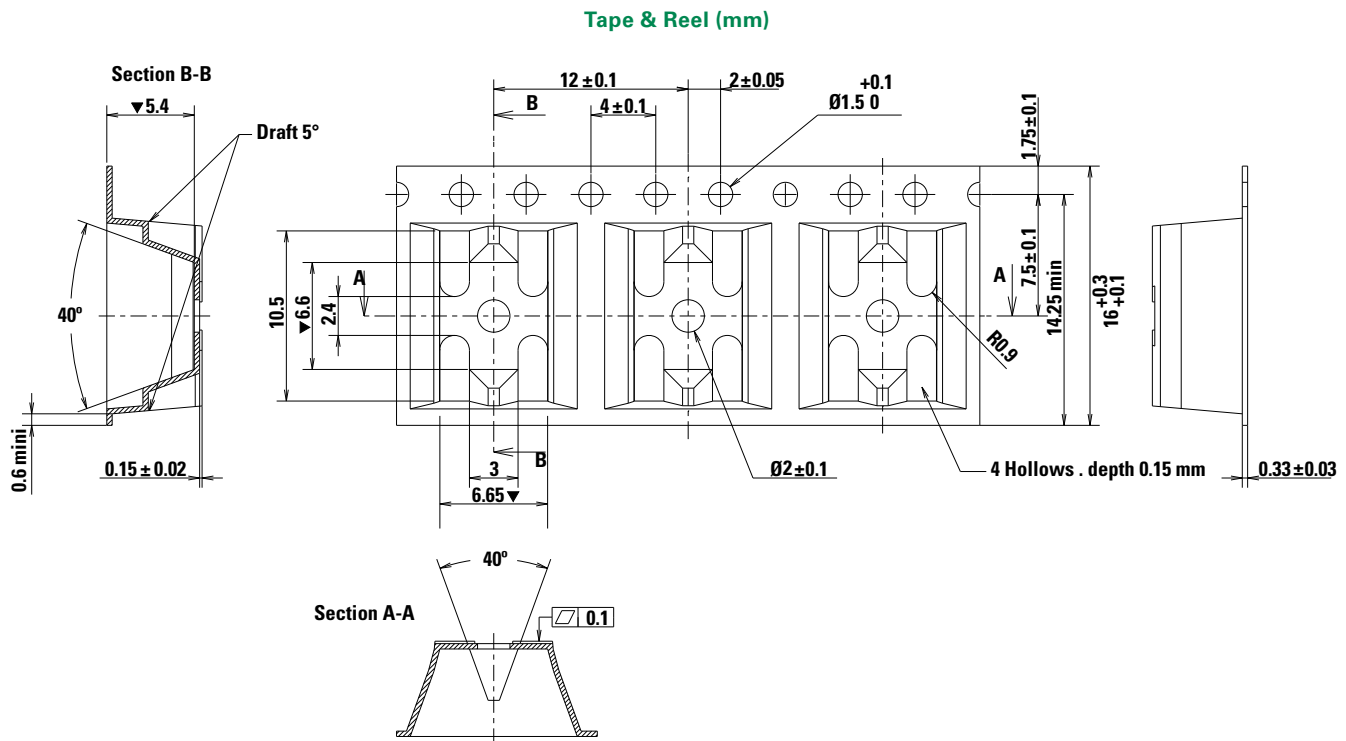
## J Terminations (mm)



## G Terminations (mm)



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### 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. For any part number different from those listed above, please consult your local representative.

**KSC - SLT - 2 - x - x - x - LFX**

**Actuator** \_\_\_\_\_  
**2:** Soft 5.0 mm height

**Operating Force**  
**2:** 2.4 N  
**40:** 3.5 N

**Plating** —

**1:** Silver (with LFS final digits only)  
**2:** Gold (with LFS final digits only)

**Termination**  
**J:** J Bend  
**G:** Gullwing

- **LFS:** Lead free compatible, silver plated
- **LFG:** Lead free compatible, gold plated

## 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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