

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

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

Electrical Characteristics

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

Environmental Characteristics

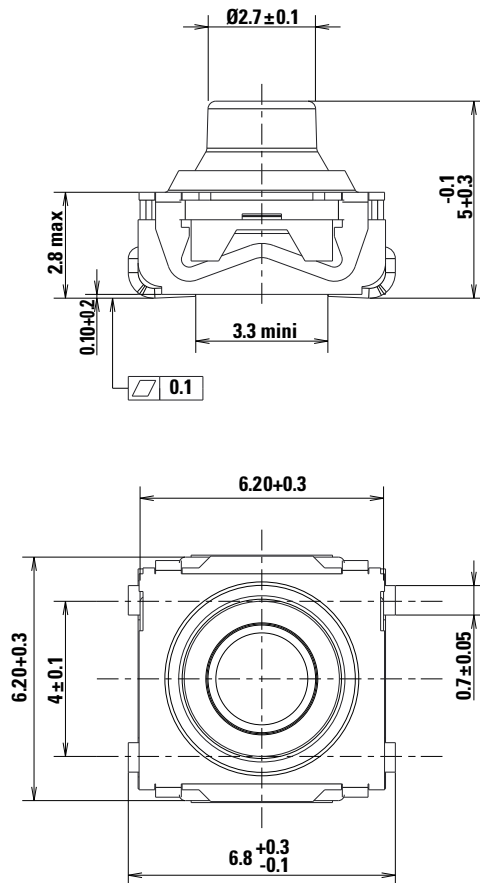
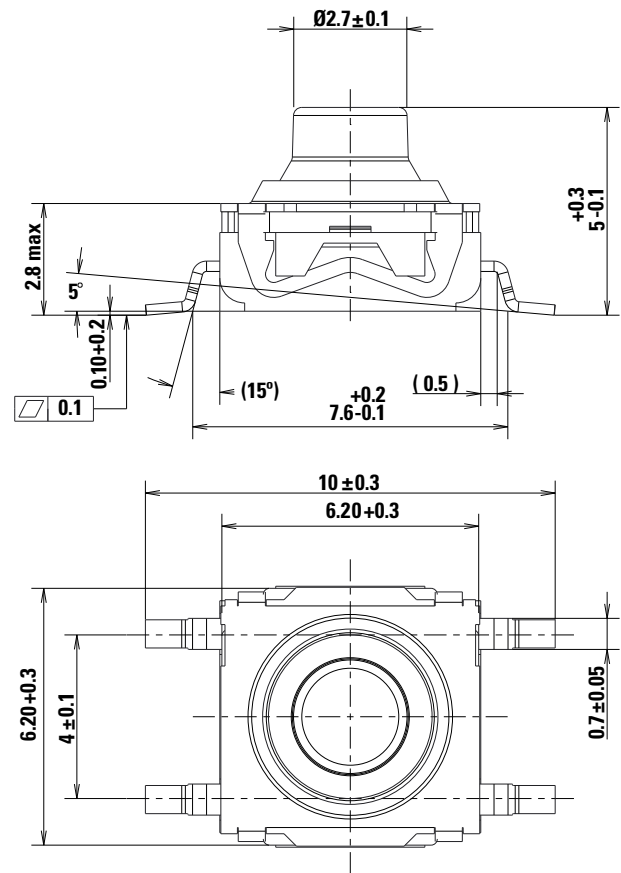
	Silver	Gold
Operating Temperature	-40°C to 85°C	
Storage Temperature	-40°C to 125°C	

Process

Soldering	Compatible with the lead free reflow soldering process
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**Dimensions (mm)****J J Bend****G Gullwing**

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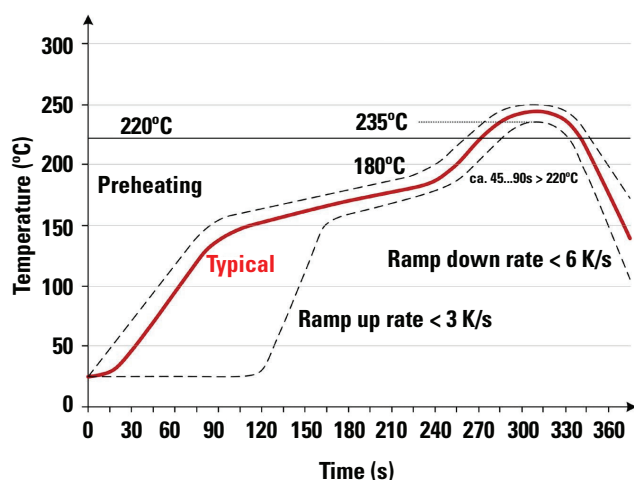


Mechanical Characteristics

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

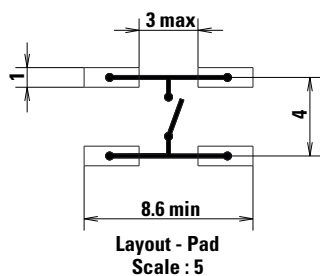


Note: Up to 2 reflow cycles in accordance with the above temperature profile

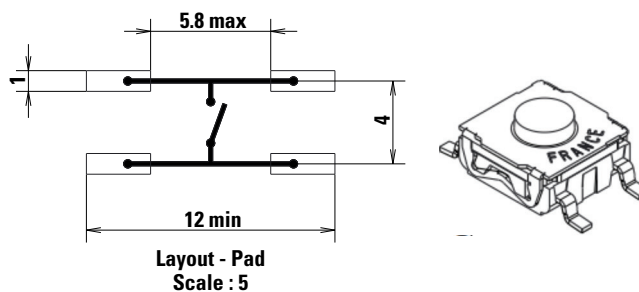
Soldering process: Depending on the application, this component is suited to the following methods:

- 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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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.

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

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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