

**KSC2 DCT Series**

Dual Circuit Technology

Tactile Switch for SMT 6.2mm x 6.2mm

**Description**

The KSC2 DCT series of sealed tactile switches for SMT are IP67 rated, 3.5mm high momentary action tactile switches, featuring a soft actuator. The switches have an operating force of 4.75N +/-1.25N and a lifespan of 300K cycles. The KSC2 series is designed to give users a positive tactile feeling.

**Features & Benefits**

- SPDT NC-NO function
- Electrical Height for easier integration due to more precise tolerances
- Soft actuator 3.5mm high
- IP67
- Compatible with JEDEC reflow soldering process of SMT devices
- Low halogen, RoHS and REACH compliant
- J bend terminals

**Applications**

- Industrial electronics
- Consumer products
- Transportation
- Medical

**Specifications**

<b>Function</b>	Momentary action
<b>Contact Arrangement</b>	2 contacts = SPDT, NC -NO
<b>Terminals</b>	J bend type for SMT
<b>Sealing</b>	IP67

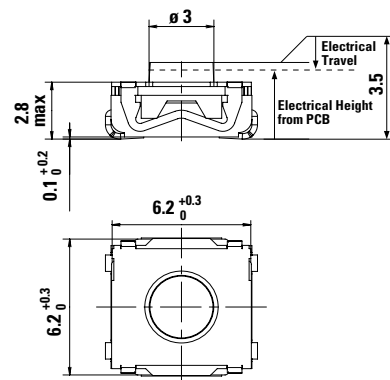
**Note:** Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

**Electrical Characteristics**

	Activated Position	Released Position
<b>Dielectric Strength (50Hz, 1 min.)</b>	125 Vrms	250 Vrms
<b>Contact Resistance</b>	0.1 Ohm	0.5 Ohm
<b>Insulation Resistance (100V)</b>	1000 MOhm	1000 MOhm
<b>Bounce Time</b>	3 ms	20 ms
<b>Maximum Power</b>	1 VA	0.5 VA
<b>Maximum Voltage</b>	24 V	12 V
<b>Minimum Voltage</b>	0.02 V	0.04 V
<b>Maximum Current</b>	50 mA	25 mA
<b>Minimum Current</b>	1 mA	2 mA

**Environmental Characteristics**

<b>Operating Temperature</b>	-40°C to 85°C
<b>Storage Temperature</b>	-55°C to 85°C

**Dimensions (mm) J Termination**

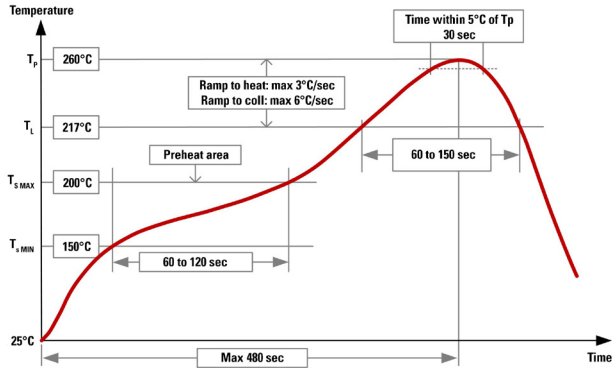
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**Mechanical Characteristics**

Part #	Operating Force Fa (Newtons)	Operating Life (operations)	Electrical Height from PCB (mm)
KSC2 DCT	4.75 +/- 1.25	300,000	3.2 +/- 0.3

**Soldering Profile**

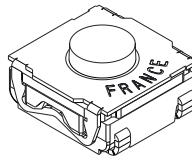
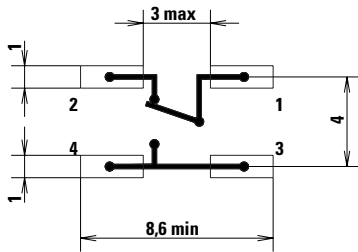


Note: Up to 2 reflow cycles in accordance with the above temperature profile

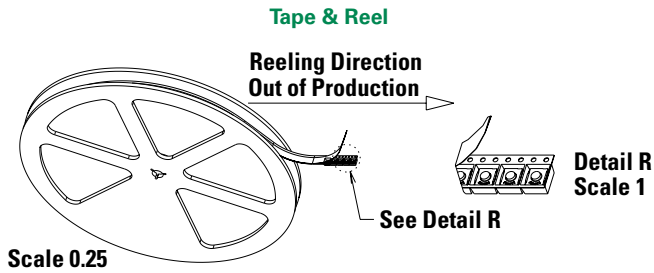
Soldering process: Depending on the application, this component is suited to the following methods:

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

**J Terminations (mm)**

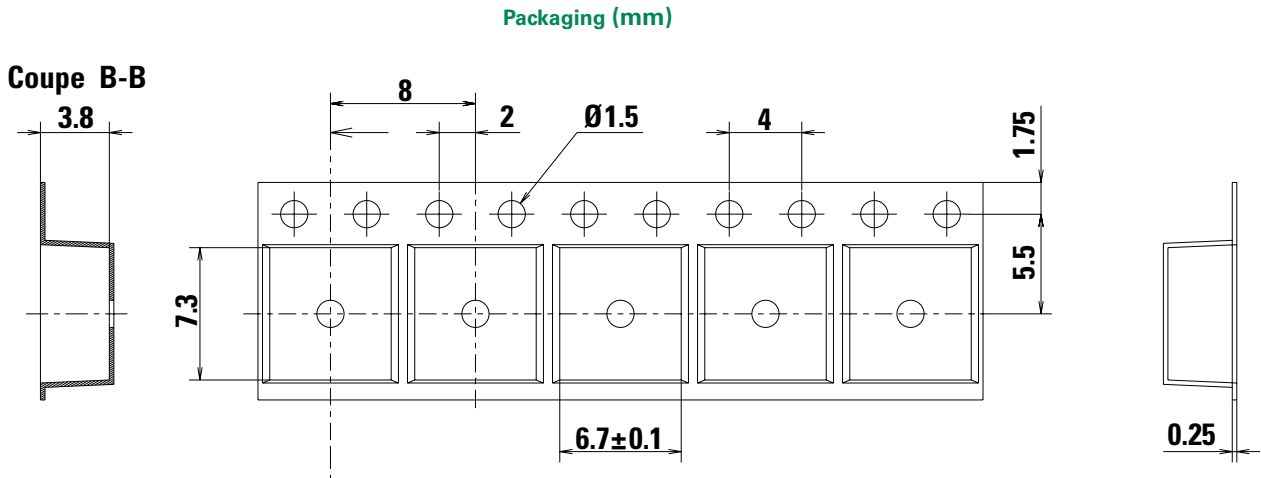


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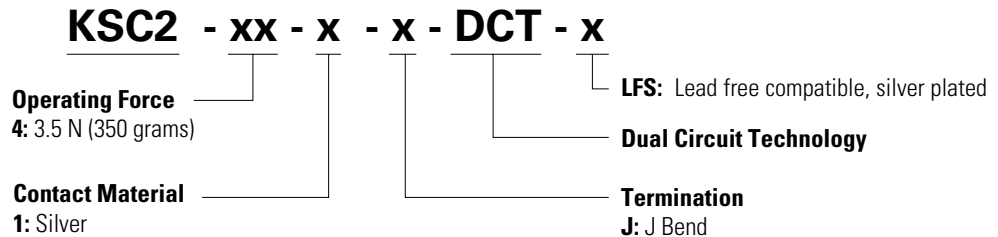
**Packaging Details**

Type	Tape & reel
Number of Parts in Packaging	2,000
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. However, please note that not all 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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