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 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

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

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

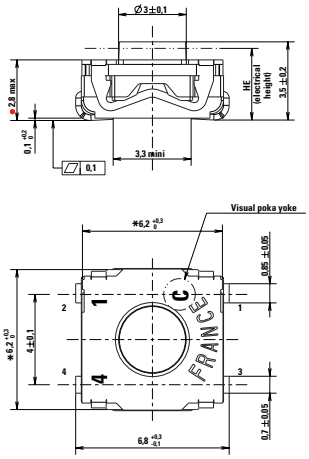
Electrical Characteristics

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

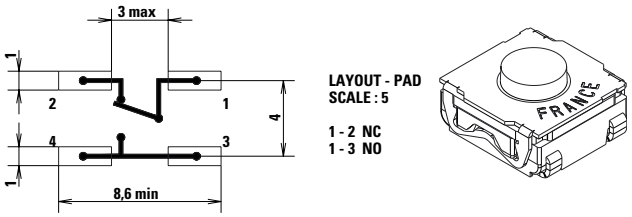
Environmental Characteristics

	KSC221	KSC241
Operating Temperature	-40°C to 105°C	-40°C to 85°C
Storage Temperature	-55°C to 105°C	-55°C to 85°C

Dimensions (mm) J Termination



J Terminations (mm)



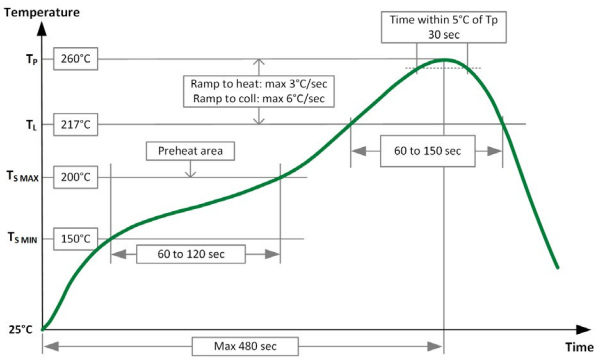
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Tactile Switch for SMT 6.2mm x 6.2mm

Soldering Profile

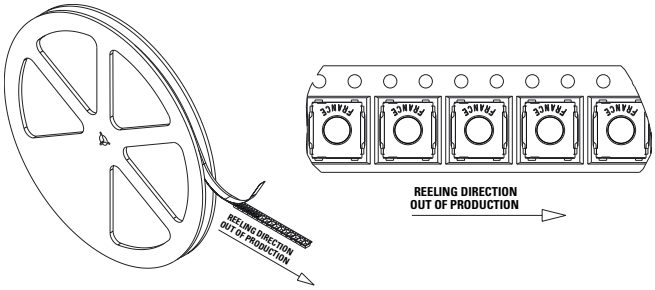


N	T_P	Peak package body Temperature
	T_L	Liquidous Temperature

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.

Tape & Reel



Packaging Details

Type	Tape & reel, external dimension 330±2 mm
Number of Parts in Packaging	2,000
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

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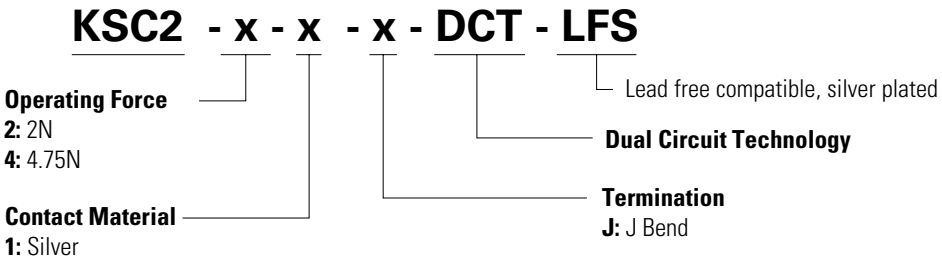
KSC2 DCT Series

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Tactile Switch for SMT 6.2mm x 6.2mm

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.



Mechanical Characteristics

Supply status	Littelfuse Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Operating Life (operations)	Tactile ratio (Min)	Electrical Travel (mm) (for information only)	Electrical Height from PCB (mm)
✓	Y31421V32FPLFS	KSC221J DCT LFS	Silver	J	2±0.5	2,000,000	Min 5%	0,35	3.15±0.2
✓	Y314J1V32FPLFS	KSC241J DCT LFS	Silver	J	4.75±1.25	300,000	Min 5%	0,3	3.2±0.3

Notes:
Supply status: ✓: Available for ordering.

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 equipement. Please contact customer service for the contractual specification package.

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