KSC6 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 7.7 mm Height Hard Actuator

Description

The KSC6 series of sealed tactile switches for SMT are IP67 rated, 7.7 mm high momentary action tactile switches, featuring a hard actuator. The switches are available with a variety of operating forces and have an operating life of 300,000 cycles. The KSC6 series are designed to give users a positive adaptable tactile feeling, perfect for industrial electronics, consumer products and automotive applications.

Features & Benefits

- Positive adaptable tactile feeling
- Hard actuator 7.7mm high
- IP67
- RoHS and REACH compliant
- Compatible with lead free reflow soldering process of SMT devices
- J and G terminations

Applications

- Industrial electronics
- Consumer products
- Automotive
- Transportation
- Medical

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	J bend & Gullwing type for SMT
Sealing	IP67
Packaging	Switches delivered on continuous tape & reels of 950 pieces Dimensions according to EIA RS-481/ IEC 60286-3 standard External diameter 380 ± 2 mm

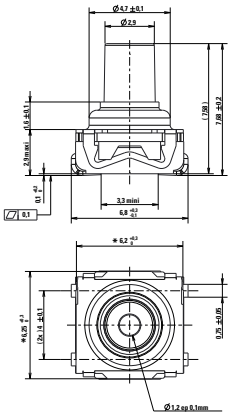
Electrical Characteristics

	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): ≥ 10M Ω	
Bounce Time	≤ 1 ms	

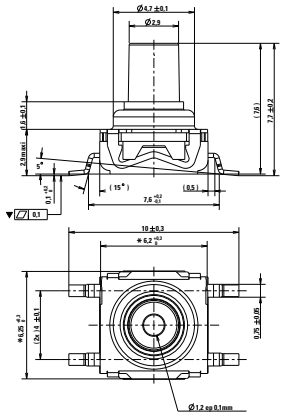
Environmental Characteristics

	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

J Dimensions (mm)



G Dimensions (mm)



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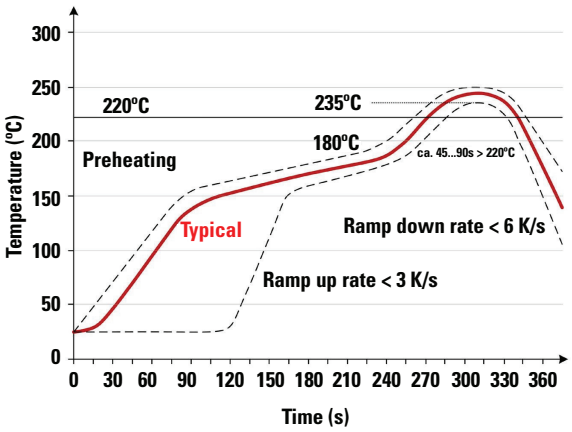
Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 7.7 mm Height Hard Actuator

Mechanical Characteristics

Part #	Operating Force FA (Newtons)	Operating Life (operations)	Travel (mm)
KSC621	1.7 ± 0.5	300,000	0.4 ± 0.2
KSC631	2.55 ± 0.65		
KSC641	3.4 ± 0.85		

Soldering Profile

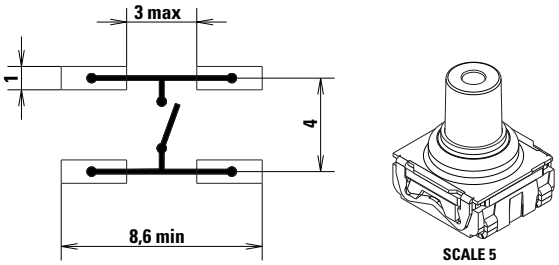


Note: Up to 2 reflow cycles in accordance with the above temperature profile

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

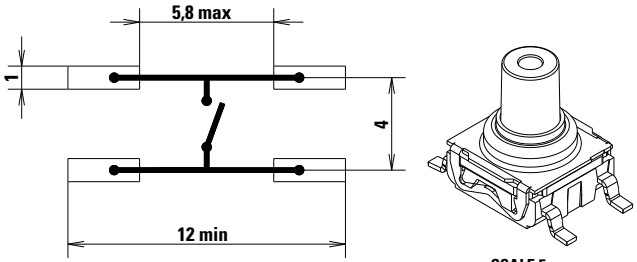
- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

J Terminations (mm)



LAYOUT - PAD
SCALE : 5

G Terminations (mm)



LAYOUT - PAD
SCALE : 5

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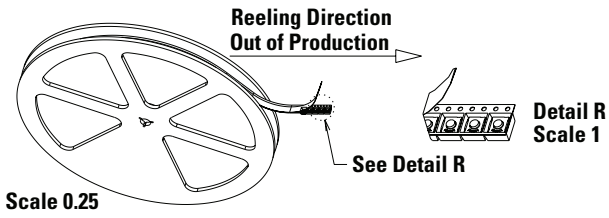
Tape & Reel



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 and place it in the appropriate box. For any part number different from those listed below, please consult your local representative.

KSC6 - x - x - x - xxx

Operating force
2: 1.7 N (170 grams)
3: 2.55 N (255 grams)
4: 3.4 N (340 grams)

Contact Material
1: Silver
3: Gold

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

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