

KSC5 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 5.6 mm Height Hard Actuator and Rocker Option



Description

The KSC5 series tact switches with rocker option for SMT are designed to be smaller and more flexible than many other switch technologies. They are used mostly in industrial, consumer and automotive applications, give users a positive adaptable tactile feeling and are IP50 rated, 5.6mm hard actuator switches.

Features & Benefits

- Positive adaptable tactile feeling
- 2 actuation modes: axial & lateral
- Hard actuator 5.6mm high
- IP50

Applications

- Industrial electronics
- Consumer products
- Automotive

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	J bend & Gullwing type for SMT
Sealing	IP50

Electrical Characteristics

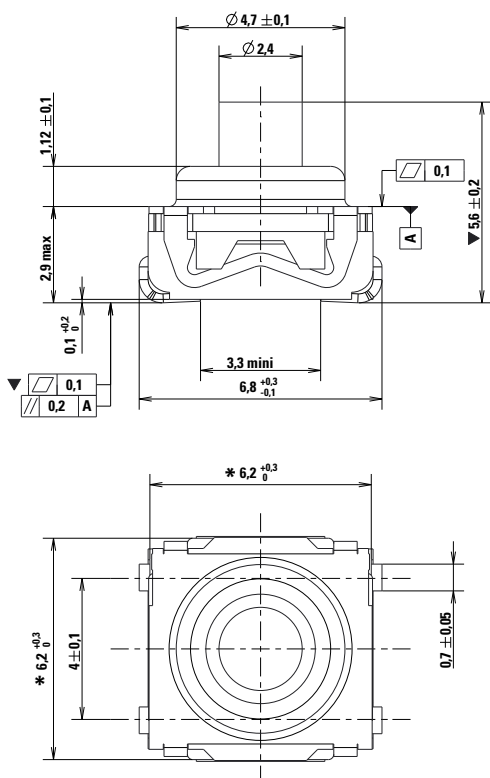
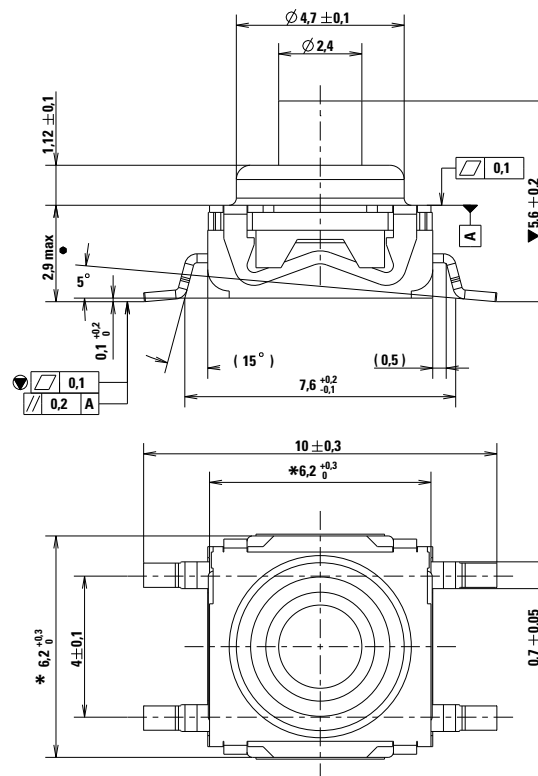
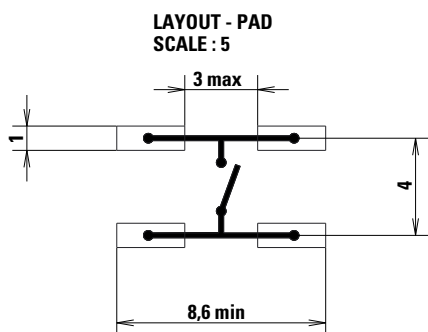
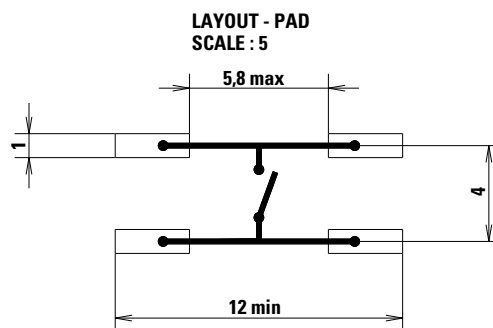
	Silver	Gold
Max. Power	1 VA	0.2 VA
Max. Voltage	32 VDC	32 VDC
Min. Voltage	20 mV	20 mV
Max. Current	50 mA	10 mA
Min. Current	1 mA	0.1 mA
Dielectric Strength	(50 Hz, 1 min.): ≥ 250 Vrms	
Contact Resistance	≤ 100 m Ω	
Insulation Resistance	(100 V): $\geq 1\,000$ M Ω	
Bounce Time	≤ 1 ms	

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

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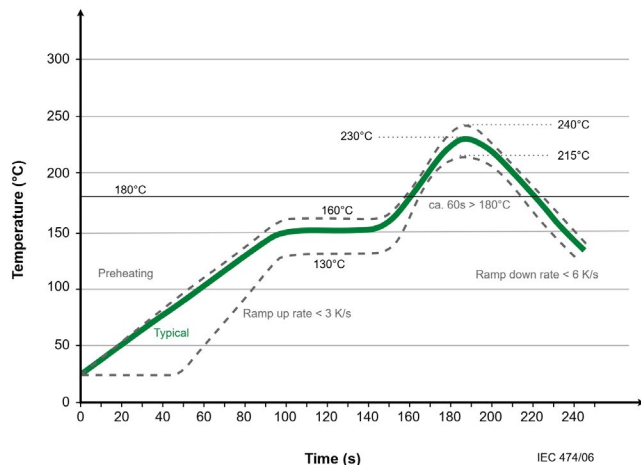
**J Dimensions (mm)****G Dimensions (mm)****Pad Layout for J Versions****Pad Layout for G Versions**

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Soldering Profile

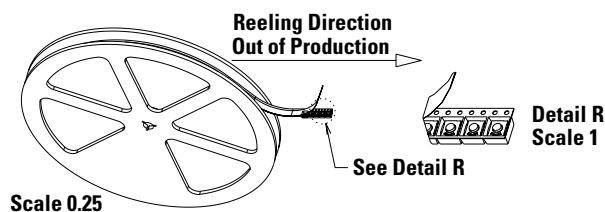


Note: Up to 2 reflow cycles in accordance with the above temperature profile

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.

Tape & Reel



Packaging Details

Type	Tape & reel External diameter 330 ± 2 mm
Number of Parts in Packaging	1,000
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

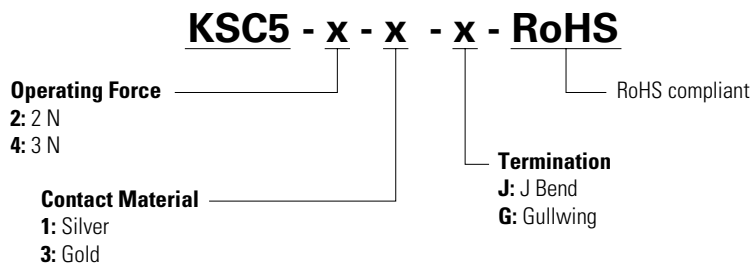
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Ordering Number

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. However, please note that not all the 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	Axial				Lateral*		
					Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)	Operating Force Fa (Newtons)	Operating Life (Operations)	Electrical Travel (mm)
✓	Y31C21664FPROHS	KSC521J ROHS	Silver	J	2±0.5	Min 25%	100,000	0.25±0.15	1.9±0.7	10,000	0.5±0.25
✓	Y31C21666FPROHS	KSC521G ROHS	Silver	G	2±0.5	Min 25%	100,000	0.25±0.15	1.9±0.7	10,000	0.5±0.25
✓	Y31C23664FPROHS	KSC523J ROHS	Gold	J	2±0.5	Min 25%	100,000	0.25±0.15	1.9±0.7	10,000	0.5±0.25
✓	Y31C23666FPROHS	KSC523G ROHS	Gold	G	2±0.5	Min 25%	100,000	0.25±0.15	1.9±0.7	10,000	0.5±0.25
✓	Y31C41664FPROHS	KSC541J ROHS	Silver	J	3±0.75	Min 25%	100,000	0.25±0.15	2.8±1	10,000	0.5±0.25
✓	Y31C41666FPROHS	KSC541G ROHS	Silver	G	3±0.75	Min 25%	100,000	0.25±0.15	2.8±1	10,000	0.5±0.25

Note: Supply status: ✓ : Available for ordering.

Lateral* Lateral actuation: 90° to axial direction, measured at 1mm from top of actuator

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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