

# KSS331GLFS Datasheet

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**KSS331GLFS**

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DiGi Electronics Part Number	KSS331GLFS-DG
Manufacturer	<a href="#">C&amp;K</a>
Manufacturer Product Number	KSS331GLFS
Description	SWITCH TACTILE SPST-NO 0.05A 50V
Detailed Description	Tactile Switch SPST-NO Side Actuated Surface Mount, Right Angle



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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

KSS331GLFS

Series:

KSS

Circuit:

SPST-NO

Contact Rating @ Voltage:

0.05A @ 50VDC

Mounting Type:

Surface Mount, Right Angle

Actuator Length, Right Angle:

-

Termination Style:

Gull Wing

Illumination:

Non-Illuminated

Illumination Voltage (Nominal):

-

Ingress Protection:

IP40

Operating Temperature:

-40°C ~ 85°C

Switch Travel:

0.30mm

Base Product Number:

KSS33

Manufacturer:

C&K

Product Status:

Active

Switch Function:

Off-Mom

Actuator Type:

Rectangular Button

Actuator Height off PCB, Vertical:

-

Actuator Orientation:

Side Actuated

Outline:

7.60mm x 3.70mm

Illumination Type, Color:

-

Operating Force:

250gf

Features:

Tactile Feedback

Actuator Material:

-

Mechanical Life:

100,000 Cycles

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.50.9031

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# KSS Series

Sub-Miniature Side Actuated Tactile Switch for SMT 7.0 x 4.4 mm with 1.7 mm Height Actuator



## Specifications

Function	Momentary action
Contact Arrangement	N.O.
Terminals	Gullwing IP40 sealed
Overload	20N
Packaging	Tape and reels of 3,000 pieces External diameter 330mm ± 2mm

## Electrical Characteristics

	Silver	Gold
Maximum Power	1 VA	0.2 VA
Max. Voltage	32VDC	
Min. / Max. Current	1 - 50 mA	1 - 10 mA
Dielectric Strength	≥ 250 VDC	
Contact Resistance	< 100 mΩ	
Insulation Resistance	(100 VDC): ≥ 10 <sup>9</sup> Ω	
Bounce Time	< 3 ms	

## Environmental Characteristics

Operating Temperature	-40°C to 85°C	-40°C to 125°C
Storage Temperature	-55°C to 85°C	-55°C to 125°C

## Description

The KSS series subminiature SMT side actuated switch features a large flat top, has a low profile of 1.7 mm and can withstand high shear forces, making it ideal for products that are exposed to harsh environmental conditions, including health diagnostics, industrial electronics and consumer devices such as cell phones.

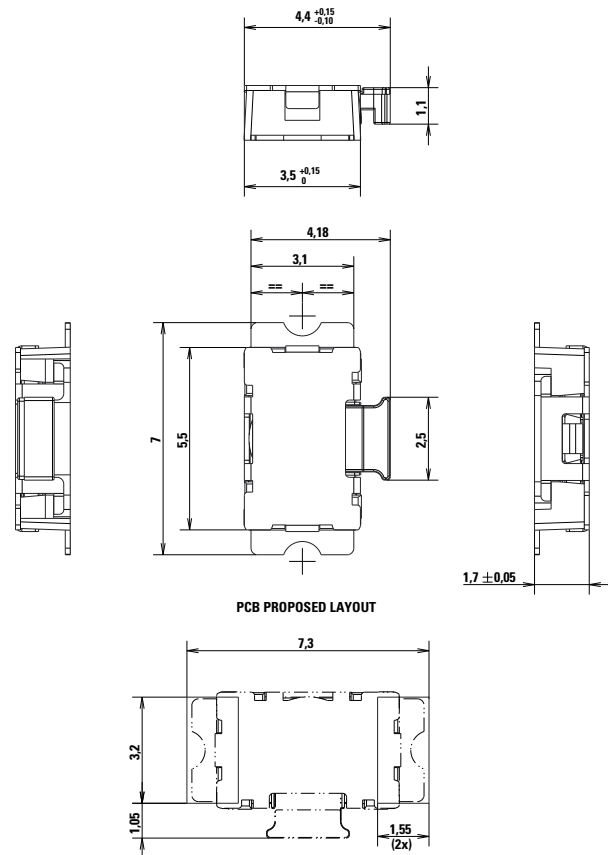
## Features & Benefits

- Low profile of 1.7 mm
- Excellent tactile feel
- High shear force
- Range of actuation forces
- Large flat top
- RoHS compliant and compatible

## Applications

- Cellular phone
- Industrial electronics
- Health diagnostic electronics

## Dimensions (mm)



# KSS Series

## Sub-Miniature Side Actuated Tactile Switch for SMT 7.0 x 4.4 mm with 1.7 mm Height Actuator

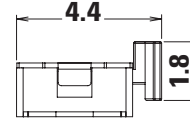


### Actuator (mm)

#### 2 - Standard, 1.1 (0.043)



#### 3 - Large, 1.8 (0.070)

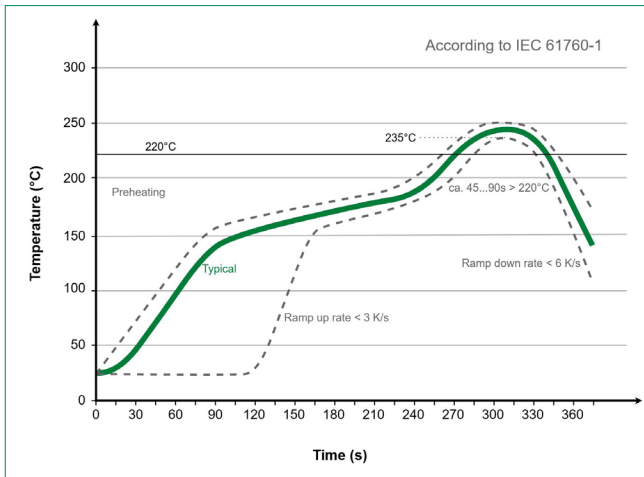


### Mechanical Characteristics

Part #	Operating Force Newtons (gf)	Operating Life (operations)	Travel (mm)	Tactile Feeling (Min %)
KSS221G	2 (200) ± 0.5	100,000	0.3 ± 0.15	25%
KSS231G	2.5 (250) ± 0.5		0.3 ± 0.10	30%
KSS241G	4 (400) ± 1		0.3 ± 0.15	25%
KSS321G	2 (200) ± 0.5	250,000	0.3 ± 0.15	25%
KSS331G	2.5 (250) ± 0.7			25%
KSS341G	4 (400) ± 1			25%

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

### Soldering Profile



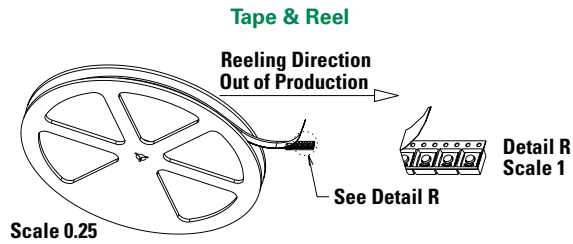
Soldering process: Depending on the application, this component is suited to the following methods:

- Lead free reflow soldering process in accordance with IEC 61760-1
- 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.

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

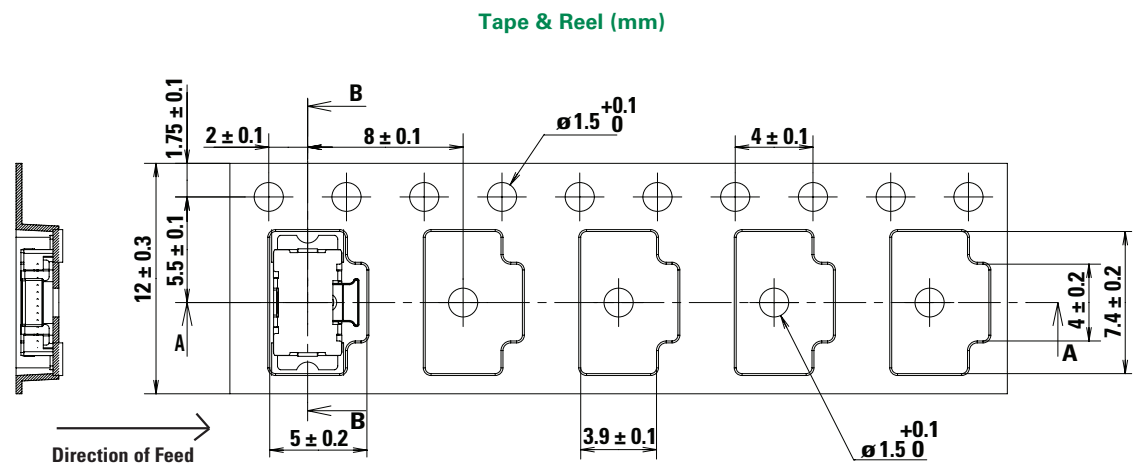
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Sub-Miniature Side Actuated Tactile Switch for SMT 7.0 x 4.4 mm with 1.7 mm Height Actuator



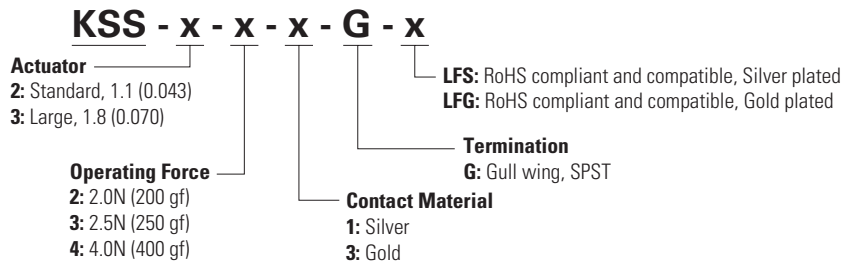
**Packaging Details**

Type	Tape & reel
Number of Parts in Packaging	3,000
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. However, please note that all the combinations of these options are not feasible. For any part number different from those listed above, 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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