

KSC V2 Series

Side Actuated Sealed Tactile Switch 6.2 x 6.5 mm, with 2.3 or 3.9 mm Height Soft Actuator



Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	2 pin in paste terminals and 3 SMD ground terminals
Contact Material	Silver or Gold plated

Electrical Characteristics

	Silver	Gold
Max. Power	1 VA	0.2 VA
Min. / Max. Voltage	20mV - 32VDC	
Min. / Max. Current	1 - 50 mA	0.1 mA - 10 mA
Dielectric Strength	(50 Hz, 1 min.) ≥ 250 Vrms	
Contact Resistance	≤ 100 m Ω	
Insulation Resistance	(100 V, initial stage): $> 10^9$ 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

Description

The KSC V2 series of side actuated sealed tactile switches feature a unique design that allows for easy side or rocker integration, which permits haptic adaptability and ensures that the switch meets specific tactile feedback and sound requirements. The KSC V2 switches are IP67 rated and feature a soft actuator of 2.3 or 3.9 mm height. They are available with a variety of operating forces and in a range of electrical lifespans, depending on the model - ideal for industrial electronics, network equipment and automotive applications.

Features & Benefits

- Full SMD side actuated
- Haptic adaptability
- Pin in paste terminations
- Tape & reel
- IP67
- Compatible with lead free reflow soldering process of SMT devices
- Low halogen, RoHS and REACH compliant

Applications

- Transportation
- Industrial electronics
- Network equipment
- Telecommunications

Process

Soldering	Depending on the application, this component is suited to the following methods: Cleaning according to typical washing processes. Lead free reflow soldering process in accordance with IEC 61760-1.
Terminals	Pin in paste, silver or gold plated
Top Plate	Tin plated
MSL level:	1
Vacuum Pick Head	Mandatory
Packaging	In reels of 800 pieces Dimensions of reels according to EIA RS481 or IEC 2863. External diameter 380 mm $\pm$ 2 mm.

Note: This product is designed and manufactured for general electronic devices. For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

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Mechanical Characteristics

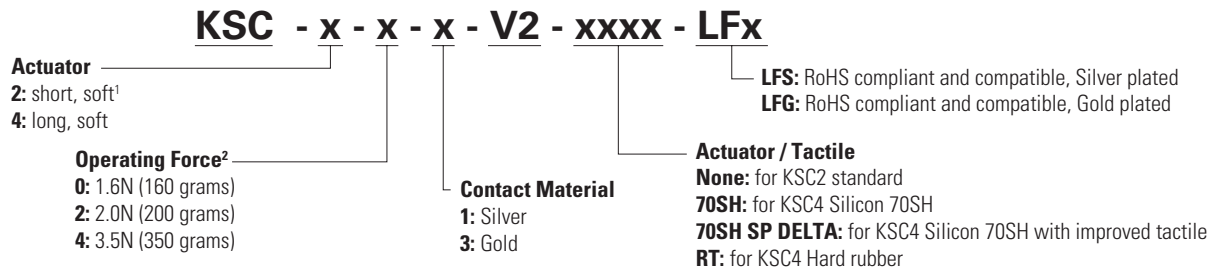
Part #	Force(N)	Operating Life (operations)	Travel (mm)
KSC201 V2 LFS	1.6±0.6	1,000,000	0.3±0.2
KSC421 V2 70SH LFS	1.55±0.45	300,000	0.45±0.25
KSC441V2 70SH SP DELTA LFS	3.5±1.0	300,000	0.7±0.2
KSC443V2 70SH SP DELTA LFG	3.5±1.0	300,000	0.7±0.2
KSC421 V2 RT LFS	1.8±0.5	300,000	0.3±0.2
KSC423 V2 RT LFG	1.8±0.5	300,000	0.3±0.2
KSC441 V2 RT LFS	3.4±1.0	300,000	0.35±0.2

Notes

1. Other configurations of haptics are available upon demand. MISUSE OVERLOAD: 40N with back support
SHEAR FORCE: 10N without back support

Ordering Number

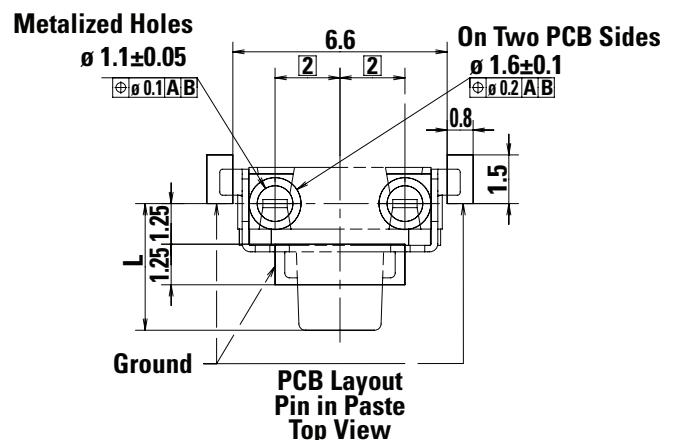
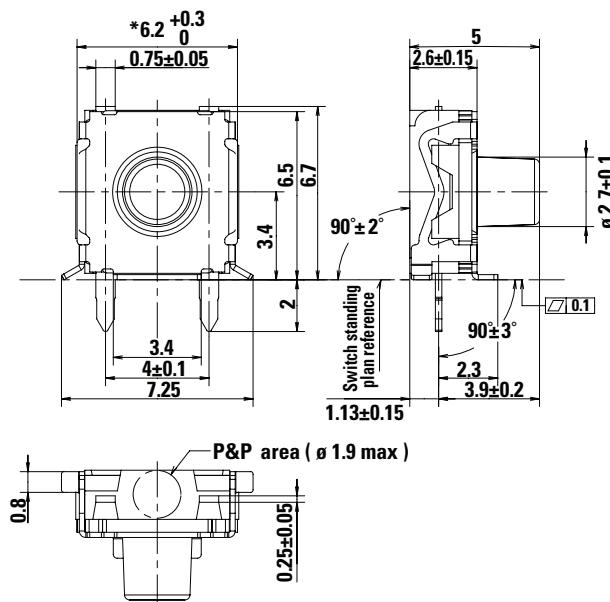
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. For any part number different from those listed above, please consult your local representative.



Notes

1. KSC2 version available upon demand
2. Force available upon demand (variant version)

Dimensions



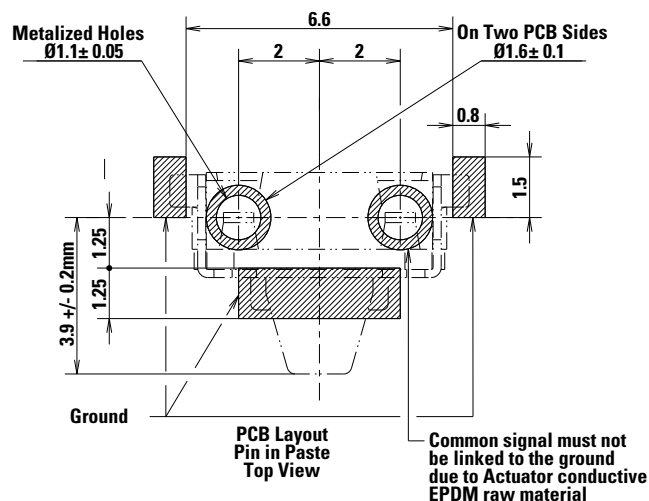
Series	L
KSC2	2.3
KSC4	3.9

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Important Note for RT Actuator

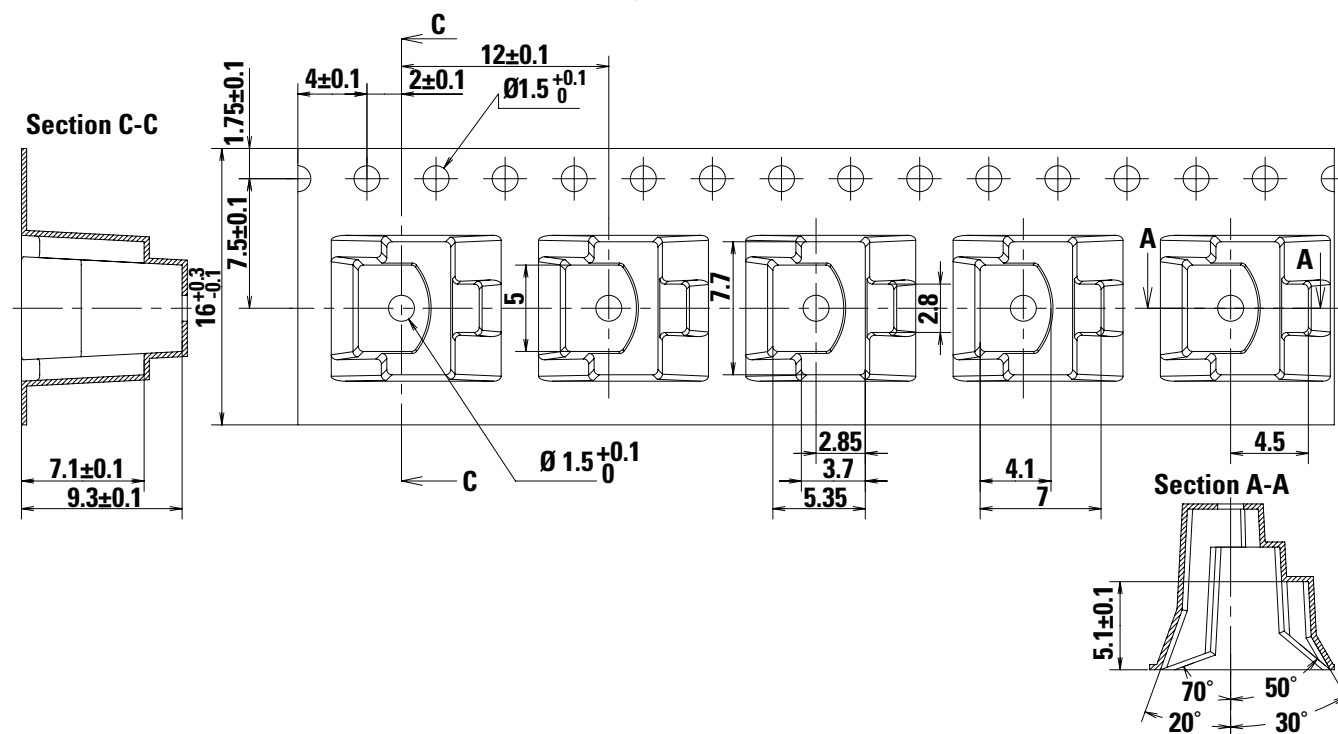


Integration



Note: This actuator is not compatible with grease even with restricted contact. In case of the integration of an actuator or button by the customer, please consult us if use of plasticizer agent for button raw material (risk of chemical migration). Our actuator contains carbon particles and is electrical conductive. In consequence, customer actuator must be electric insulating raw material. Due to the cover raw material plating, small tin balls can appear after the reflow soldering process. These small tin balls are located near all cutting areas.

Tape and Reel



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