KSC PF Series

Potting Friendly Sealed Tactile Switch for SMT 6.2 x 6.2mm



Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	J bend & Gullwing 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

Dielectric Strength (50 Hz, 1 min.)	≥ 250 Vrms
Contact Resistance	≤ 100mΩ
Insulation Resistance (100 V)	≥ 1000 M Ω
Bounce Time	≤ 1 ms
Maximum Power	1 VA
Maximum Voltage	32 VDC
Minimum Voltage	20 mV
Maximum Current	50 mA
Minimum Current	1 mA

Environmental Characteristics

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

Description

The KSC PF series of sealed tactile switches for SMT are IP67 rated, 5.2mm high momentary action switches featuring a soft actuator with an extended cage, designed to be encapsulated in protective potting material, which helps safeguard its components from environmental damage. It is ideal for use in rugged applications in which moisture, dust or vibration may be present. The switches are available with a variety of operating forces and in a range of electrical lifespans, depending on model. The KSC PF series are designed to give users a positive adaptable tactile feeling.

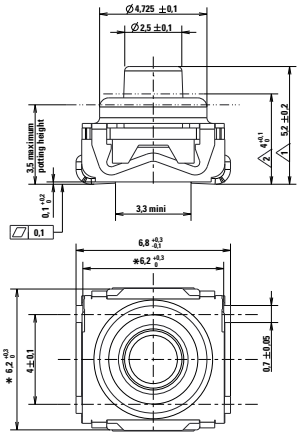
Features & Benefits

- Extended cage allows for potting material to encapsulate the switch
- Compact footprint fits applications where space is limited
- SMT automated assembly compatibility for high-volume production efficiency
- Max. power 1 VA @ 32 VDC
- Gullwing or J-bend termination
- Operating life of up to 1 Mio cycles
- IP67 sealed

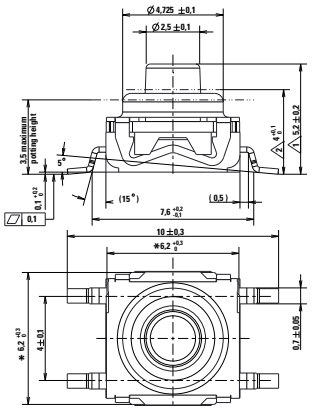
Applications

- Transportation
- Medical equipment
- Industrial electronics
- High end consumer electronics

Dimensions (mm) J Termination



Dimensions (mm) G Termination



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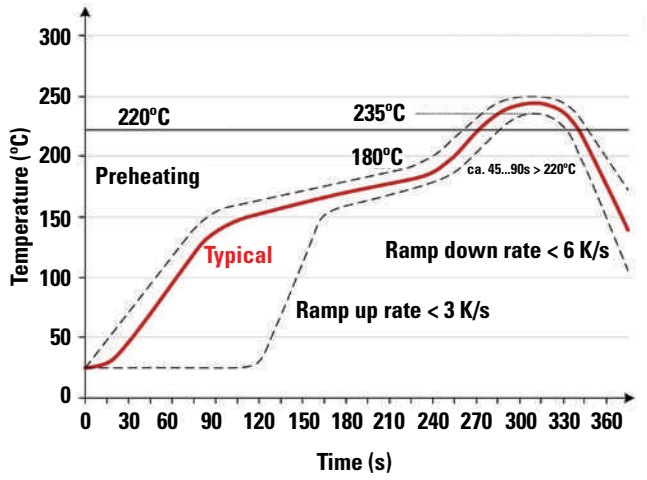
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Mechanical Characteristics

Part #	Operating Force FA (Newtons)	Operating Life (operations)	Travel (mm)	Tactile ratio (%)
KSC421G 70SH LFS PF	1.8+/-0.45	300,000	0.5 +/- 0.25	Min 15%
KSC421J 70SH LFS PF				
KSC422G 70SH LFS PF		1,000,000		
KSC422J 70SH LFS PF				
KSC441G 70SH LFS PF	4 +/- 1.0	300,000	0.65 +/-0.25	Min 10%
KSC441J 70SH LFS PF				
KSC442G 70SH LFS PF		1,000,000		
KSC442J 70SH LFS PF				
KSC461G 70SH LFS PF	6.25 ± 1.75	300,000	0.75 +/- 0.25	Min 10%
KSC461J 70SH LFS PF				
KSC471G 70SH LFS PF	4 +/- 1.0	300,000	0.65 +/-0.25	Min 5%
KSC471J 70SH LFS PF				

Soldering Profile

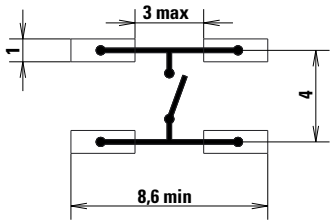


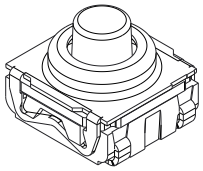
Note: Up to 2 reflow cycles in accordance with the above temperature profile

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

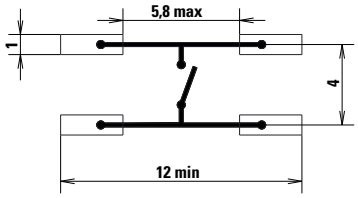
- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

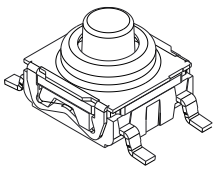
J Terminations (mm)





G Terminations (mm)



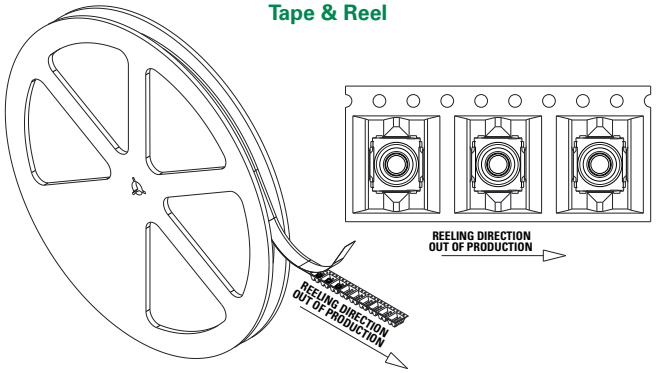


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Tape & Reel



Packaging Details

Type	Tape & reel
Number of Parts in Packaging	1,000
Other Information	Tape and reel per EIA 481-B
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 above, please consult your local representative.

KSC - 4 - x - x - x - 70SH - LFS - PF

Force
2: 1.8 N
4: 4.0 N
6: 6.25 N
7: 4.0 N

Contact Material
1: Silver
2: Silver long life

Termination
J: J Bend
G: Gullwing

Actuator / Tactile
70SH: Silicon 70SH

LFS: Lead free compatible, silver 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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