

KSC Series

Sealed Tact Switch for SMT

Features/Benefits

- Positive tactile feel
- Range of 6 actuation forces
- J or G terminations
- Tape & reel
- IP 67

Typical Applications

- Automotive
- Cellular phones
- Industrial electronics
- Computer & network industry



Specification

FUNCTION: momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
TERMINALS: J bend & Gullwing type for SMT

Mechanical

Type	Operating force FA ¹⁾ Newtons (grams)	Operating life (operations)	Travel
KSC121J	1.6 (160)	200,000	0,25+0,40/-0,0
KSC141J	3.0 (300)	200,000	0,30+0,40/-0,0
KSC151J	5.5 (550)	100,000	0,30+0,40/-0,0
KSC221J	2.0 (200)	500,000	0,35+0,30/-0,10
KSC241J	3.5 (350)	300,000	0,40+0,40/-0,10
KSC321J	1.6 (160)	500,000	0,20+0,30/-0,0
KSC341J	3.0 (300)	300,000	0,20+0,30/-0,0
KSC351J	5.5 (550)	100,000	0,25+0,30/-0,0
KSC401J*	1.1 (110)	5,000,000	0,50+0,25/-0,25
KSC411J*	1.4 (140)	1,000,000	0,35+0,2/-0,2
KSC421J*	1.7 (170)	1,000,000	0,50+0,25/-0,25
KSC441J*	3.2 (320)	300,000	0,75+0,25/-0,25
KSC621J	1.6 (160)	500,000	0,20+0,35
KSC641J	3.0 (300)	300,000	0,20+0,30
KSC421V	1.7 (170)	1,000,000	0,50+0,25/-0,25

¹⁾ Tolerances of operating force FA is $\pm 25\%$.

* NOTE: KSC4 standard silicone material is 70 shore,
the only exception is KSC401J which is 50 shore.

NOTE: Part numbers listed above do not represent all possible configurations.
For information on specific and custom switches, consult Customer Service Center.

Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	32 VDC	32 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	10 mA
MINIMUM CURRENT:	1 mA	1 mA

DIELECTRIC STRENGTH (50 Hz, 1 min.): 250 V
CONTACT RESISTANCE: < 100 mΩ
INSULATION RESISTANCE (100 V): > 10⁹ Ω
BOUNCE TIME: < 1 ms

Environmental

	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

Process

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

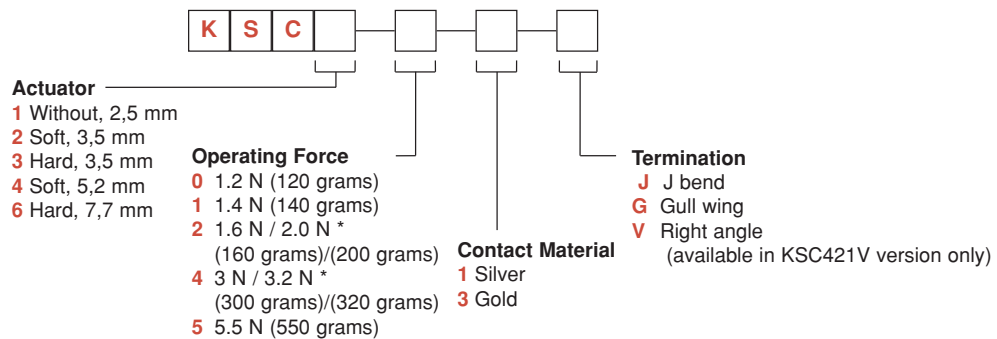
- Terminals being Tin/Lead plated over a nickel barrier, the use of slightly activated flux is suitable.
- Soldering on double wave machine. The bath temperature is generally 225°C $\pm$ 5°C and soldering time < 5 sec.
- Cleaning according to typical washing processes.
- Infrared Reflow Soldering in accordance with CECC00802

Packaging

KSC1, KSC2 and KSC3 are delivered on continuous tape and reels of 2,000 pieces, KSC4 in reels of 1,000 pieces. KSC 6 in reels of 750 pieces. Dimensions of reels according to EIA RS481 or IEC 2863. External diameter 330 mm $\pm$ 2 mm.

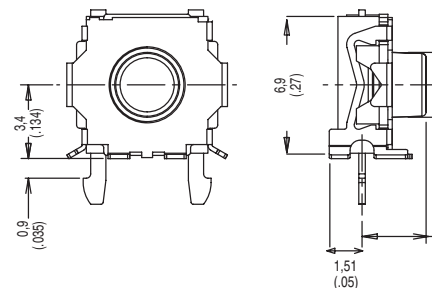
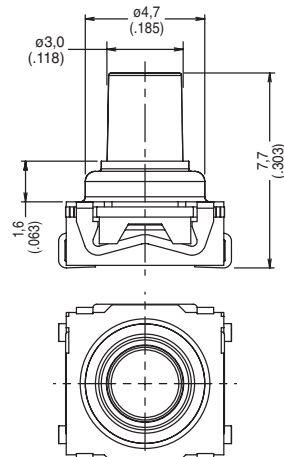
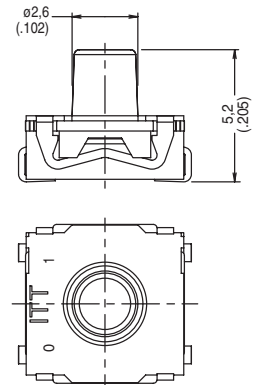
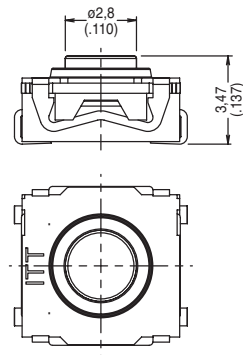
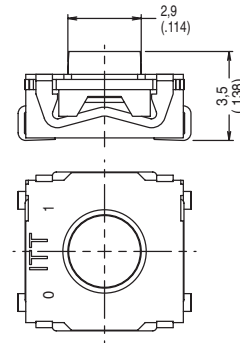
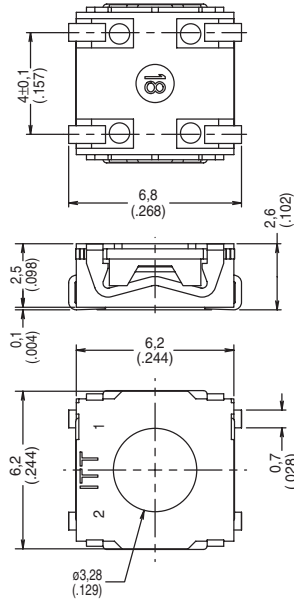
How To Order

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.



* See Mechanical chart above to confirm specifications

ACTUATOR



Dimensions are shown: mm (inch)
Dimensions subject to change

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OPERATING FORCE

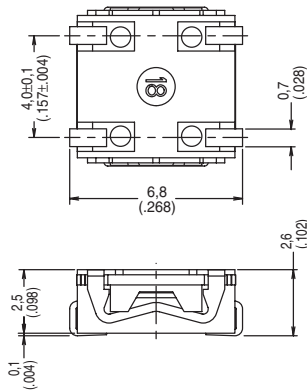
OPTION CODE	OPERATING FORCE
0	1.2 N (120 grams)
1	1.4 N (140 grams)
2	1.6 N / 2.0 N (160/200 grams)
4	3 N / 3.2 N (300/320 grams)
5	5.5 N (550 grams)

CONTACT MATERIAL

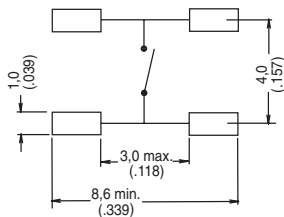
OPTION CODE	MATERIAL
1	SILVER
3	GOLD

TERMINATION

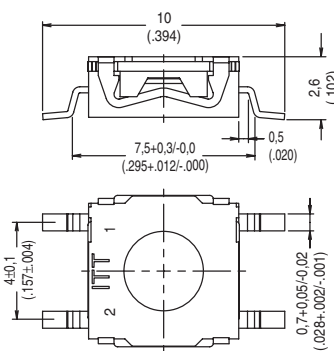
J BEND



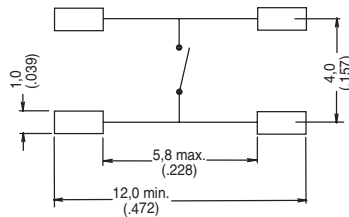
PAD LAYOUT



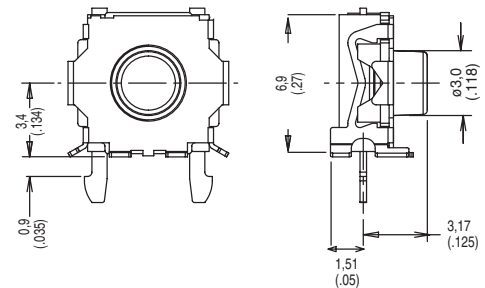
G GULLWING



PAD LAYOUT



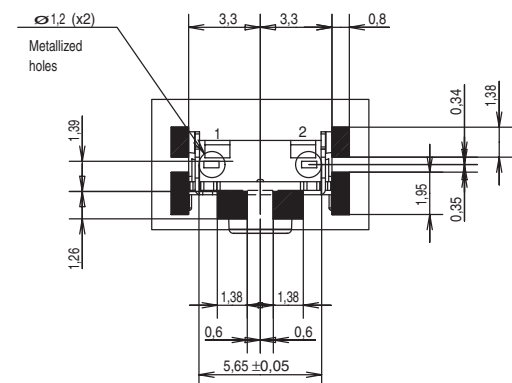
V RIGHT ANGLE - KSC421V only



PAD LAYOUT



LAYOUT



First Angle
Projection

Dimensions are shown: mm (inch)
Dimensions subject to change



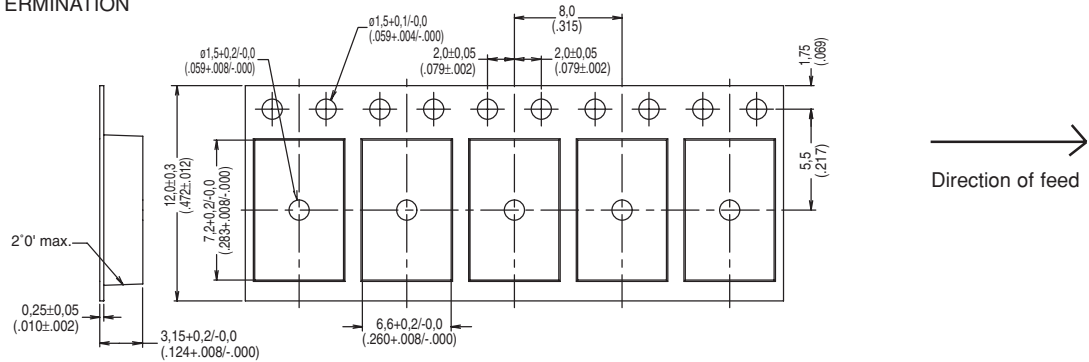
B

Tactile Switches

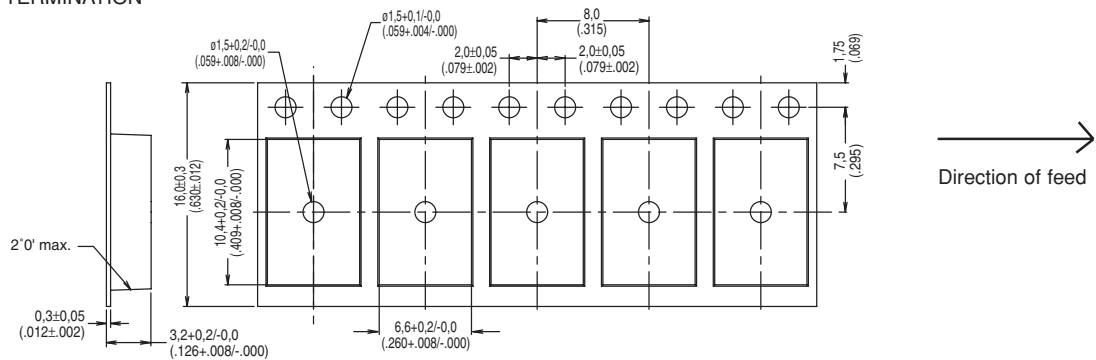
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TAPE & REEL

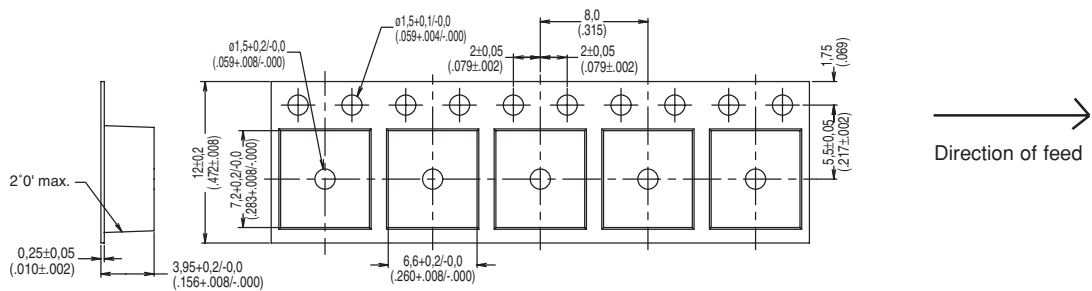
FOR KSC1 J TERMINATION



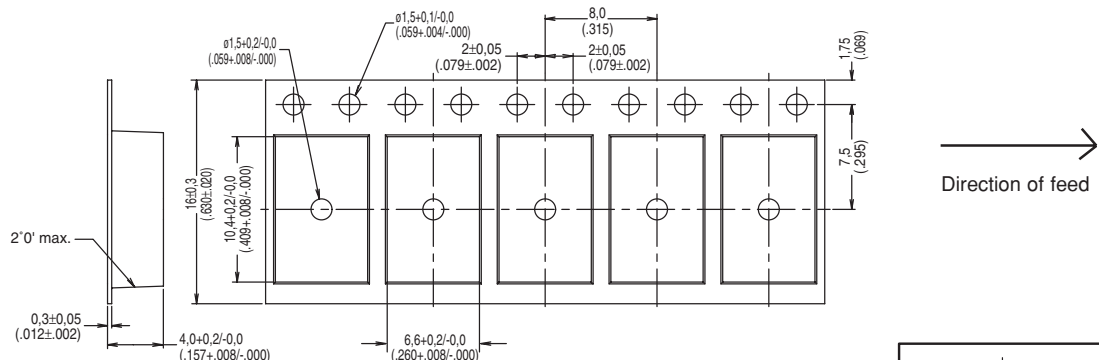
FOR KSC1 G TERMINATION



FOR KSC2 & KSC3 J TERMINATION



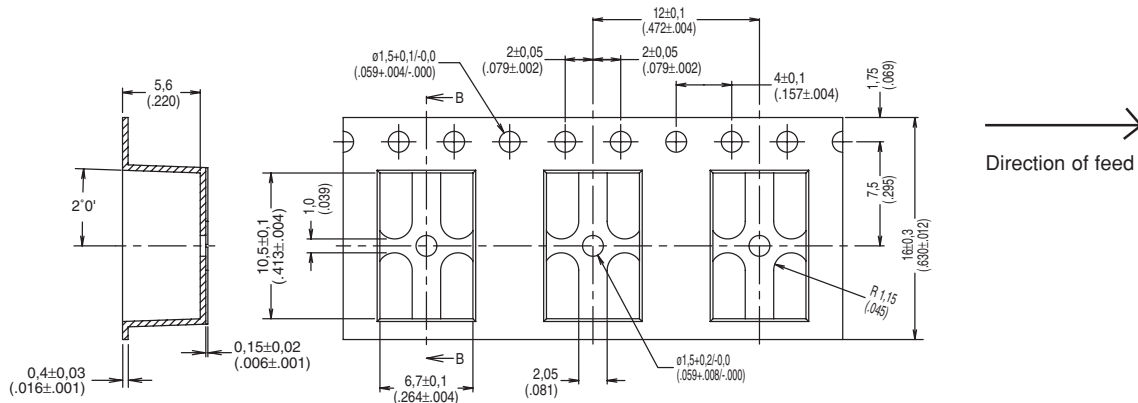
FOR KSC2 & KSC3 G TERMINATION



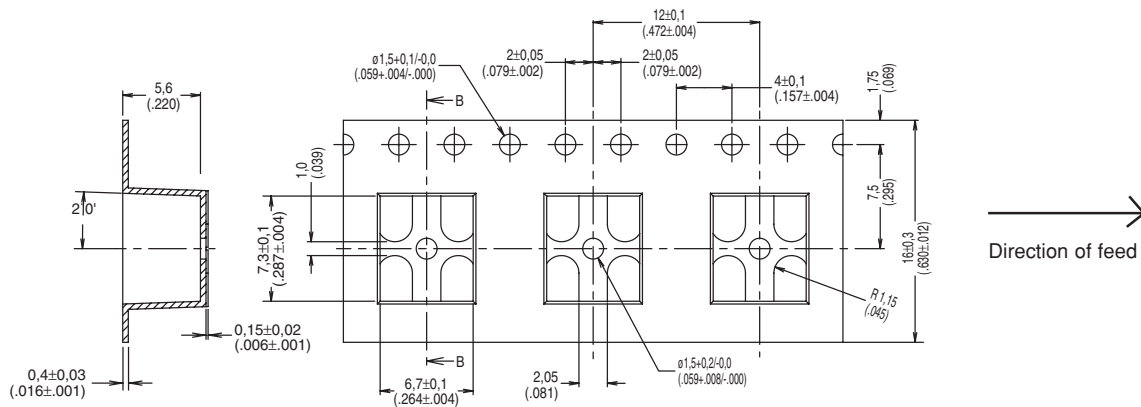
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TAPE & REEL

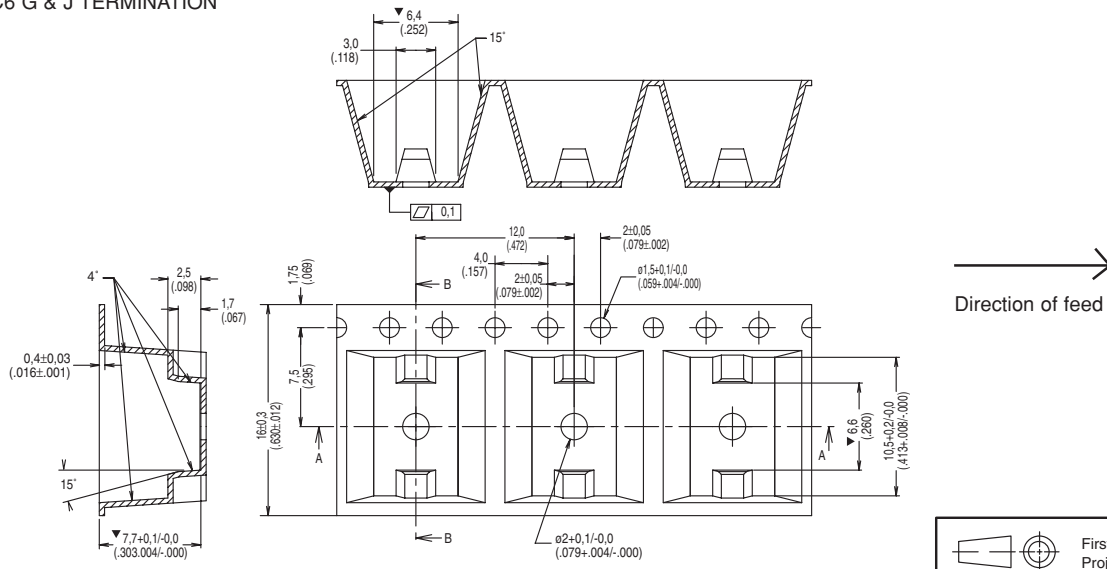
FOR KSC4 FOR G TERMINATION



FOR KSC4 FOR J TERMINATION



FOR KSC6 G & J TERMINATION



First Angle Projection