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ELECTRONICS

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Jameco Part Number 2076252

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

MAXIMUM POWER:

Silver

1 VA

Gold

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:

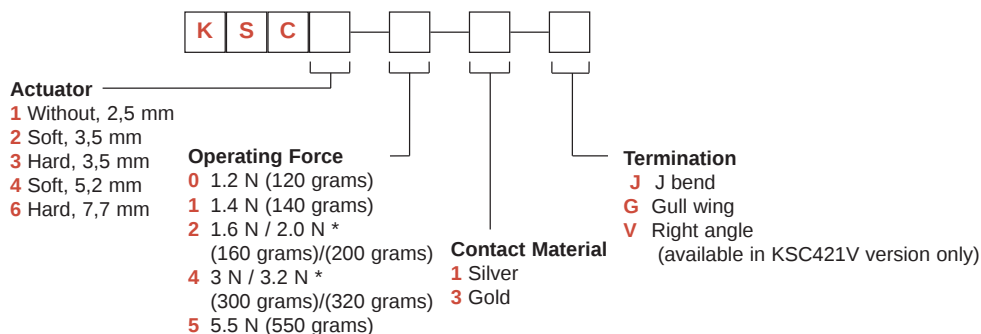
- Terminals being Tin/Lead plated over a nickel barrier, the use of slightly activated flux is suitable.
- Soldering on double wave machine. The bath temperature is generally 225°C $\pm$ 5°C and soldering time < 5 sec.
- Cleaning according to typical washing processes.
- Infrared Reflow Soldering in 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. KSCV in boxes of 500 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.



ITT Industries

Cannon

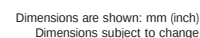
ACTUATOR

The technical drawing shows two views of the THT-06 connector. The top view is a square component with rounded corners, featuring a central circular opening with concentric circles representing internal features. Four mounting tabs are located at the corners. The bottom view is a side profile showing the component's height and a central raised section. Dimension lines indicate a width of $\varnothing 2.8$ ($.110$) and a height of 3.47 ($.137$). The label "THT" is visible on the left side of the top view.

The technical drawing shows two views of the 600 series connector. The top view is a perspective-like representation showing the front face with a central circular port and four mounting tabs. Dimensions include a width of $\varnothing 2.6$ (102) and a height of 5.2 (205). The bottom view is a top-down plan view of the same component, showing the square footprint and internal features.

Technical drawing of the 1000 Series LED Flood Light showing front and top views with dimensions:

- Top View Dimensions:
 - Outer diameter: $\varnothing 4.7$ (185)
 - Inner diameter: $\varnothing 3.0$ (118)
- Front View Dimensions:
 - Height of the main body: 7.7 (303)
 - Height of the mounting bracket: 1.6 (63)



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OPERATING FORCE

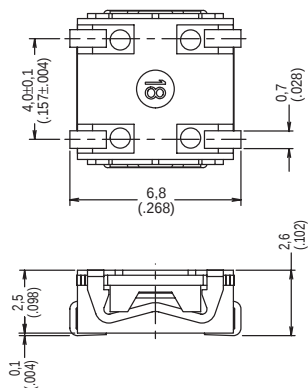
OPTION CODE	OPERATING FORCE
0	1.2 N (120 grams)
1	1.4 N (140 grams)
2	1.6 N / 2.0 N (160/200 grams)
4	3 N / 3.2 N (300/320 grams)
5	5.5 N (550 grams)

CONTACT MATERIAL

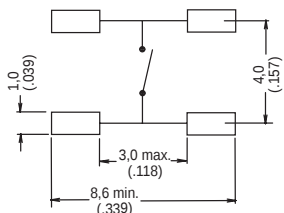
OPTION CODE	MATERIAL
1	SILVER
3	GOLD

TERMINATION

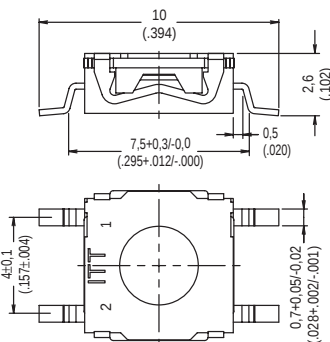
J J BEND



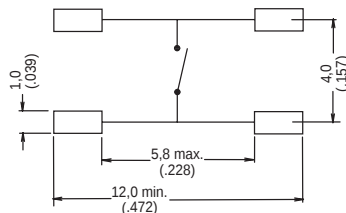
PAD LAYOUT



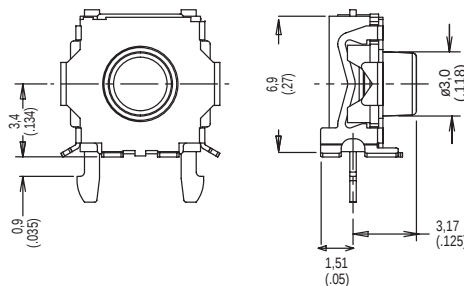
G GULLWING



PAD LAYOUT



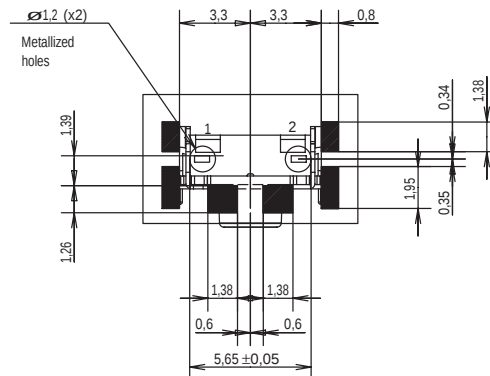
V RIGHT ANGLE - KSC421V only



PAD LAYOUT



LAYOUT



First Angle
Projection

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



ITT Industries

Cannon

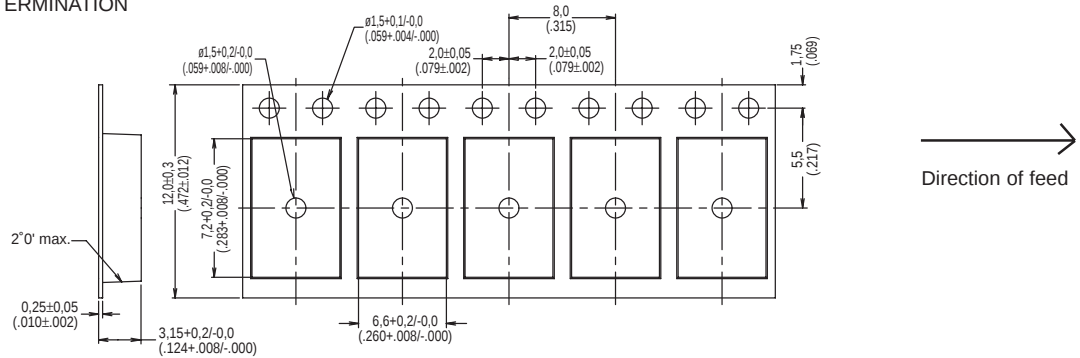


B

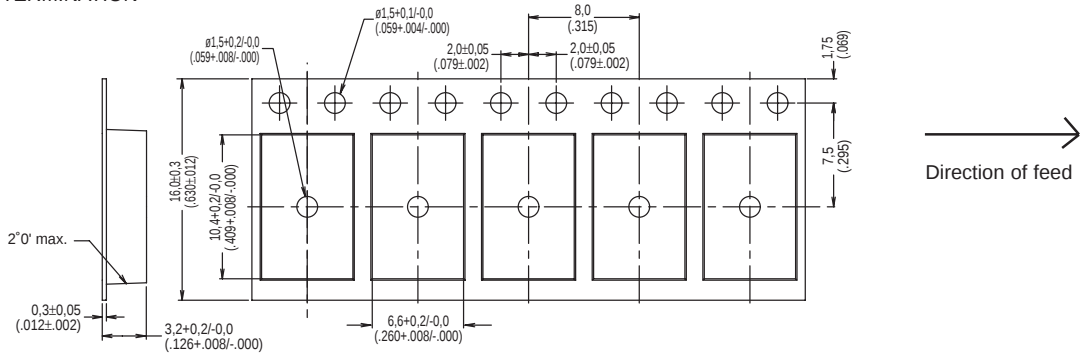
KSC Series Sealed Tact Switch for SMT

TAPE & REEL

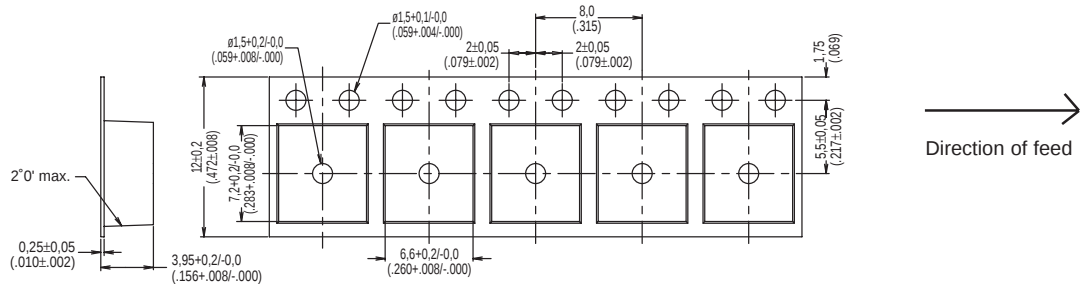
FOR KSC1 J TERMINATION



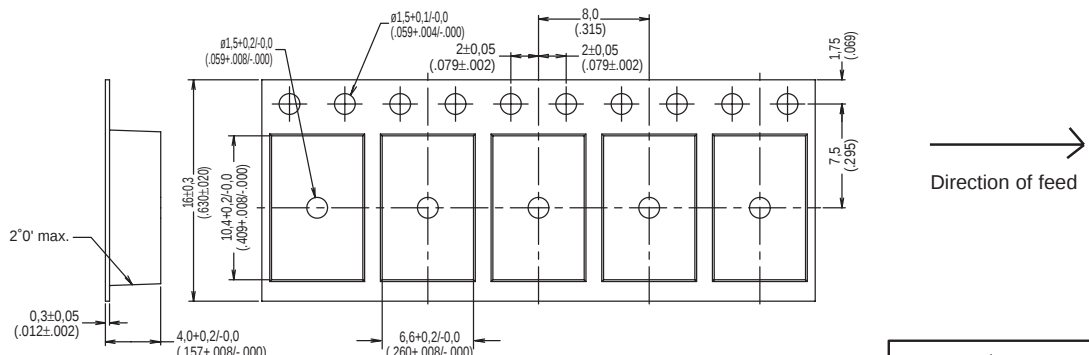
FOR KSC1 G TERMINATION



FOR KSC2 & KSC3 J TERMINATION



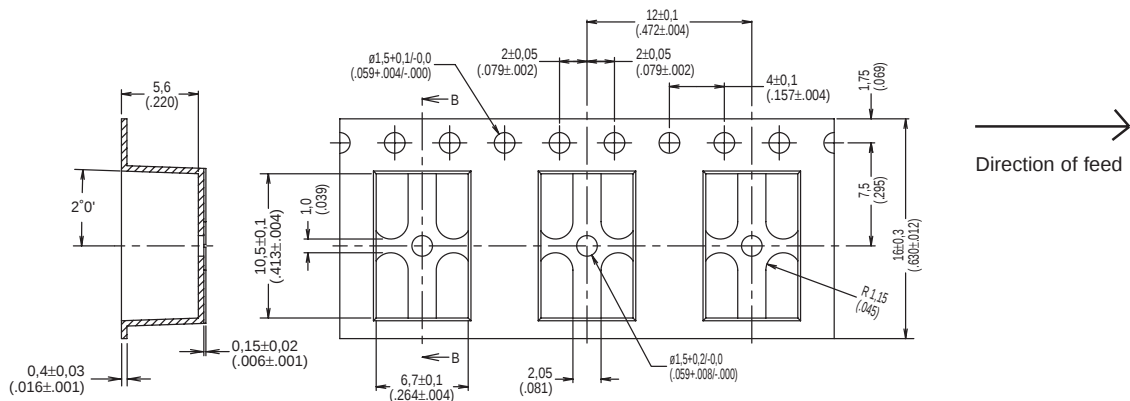
FOR KSC2 & KSC3 G TERMINATION



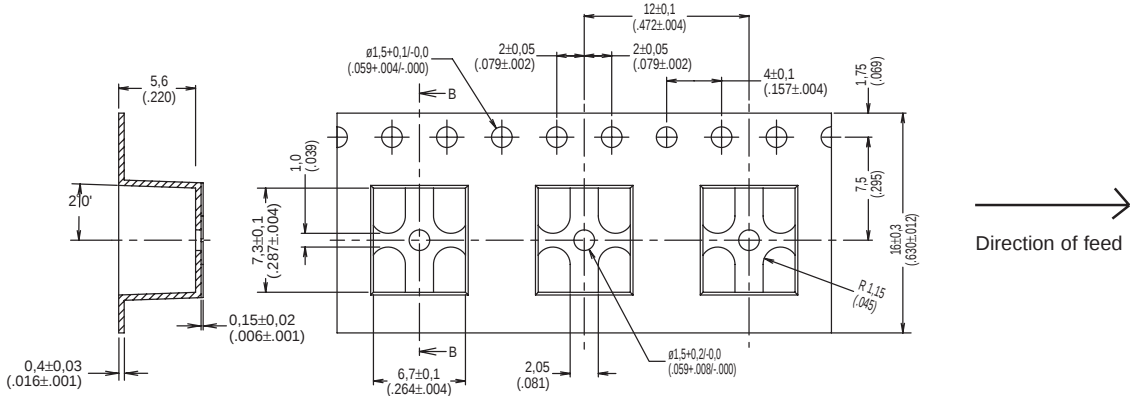
KSC Series Sealed Tact Switch for SMT

TAPE & REEL

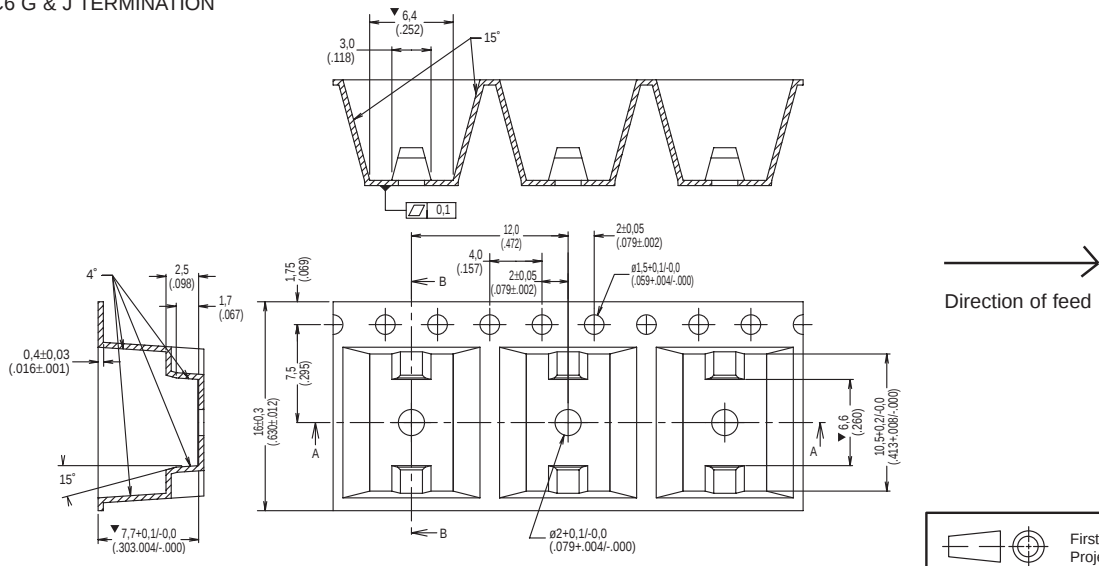
FOR KSC4 FOR G TERMINATION



FOR KSC4 FOR J TERMINATION



FOR KSC6 G & J TERMINATION



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