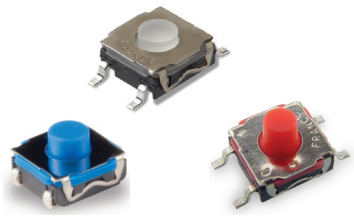
## *Features/Benefits*

- ***Positive tactile feeling***
- ***J or G terminations***
- ***Various heights***
- ***IP67***

## *Typical Applications*

- ***Automotive***
- ***Medical instruments***
- ***Industrial electronics***
- ***Network infrastructure and IT***
- ***Elevator***





## Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
TERMINALS: J bend & Gullwing type for SMT
SEALING: IP67 except KSC5 (IP50)

## 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.

## 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 silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
– Soldering on double wave machine for vertical versions: soldering time ≤ 5 sec.
– Cleaning according to typical washing processes.
– Lead free reflow soldering process in accordance with IEC 61760-1.

## 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* | 0.1 mA |

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 250 Vrms
CONTACT RESISTANCE: ≤ 100mΩ
INSULATION RESISTANCE (100 V): ≥ 10M Ω
BOUNCE TIME: ≤ 1 ms
* Ultra low current with 10 µA - 1 VDC version are available upon request for KSC2 and KSC4

## Packaging

Tape and Reel (see series for quantity information)

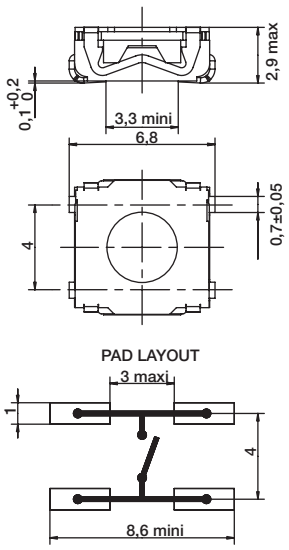
**NOTE**: Specifications listed above are for switches with standard options.

## KSC Product Range

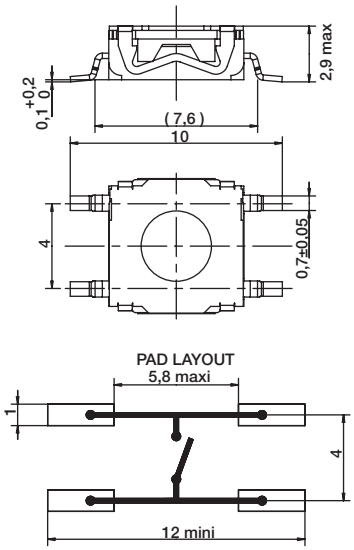
| KSC1 | KSC2 | KSC3 | KSC4 | KSC5 | KSC6 | KSC7 | KSC8 | KSC9 | KSC10 |
|---|---|---|---|---|---|---|---|---|---|
| Without actuator | Soft actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator | Soft actuator |
| H = 2.5 mm | H = 3.5 mm | H = 3.5 mm | H = 5.2 mm | H = 5.6 mm | H = 7.7 mm | H = 4.3 mm | H = 4.9 mm | H = 7.7 mm compatible with button | H = 4.9 mm |
| IP67 | IP67 | IP67 | IP67 | IP50 | IP67 | IP67 | IP67 | IP67 | IP67 |

Note: KSC Series is subject to variants. Please contact customer service for other options.

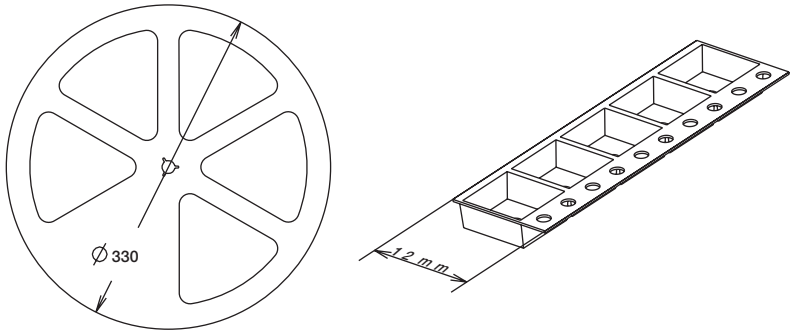
## J J BEND



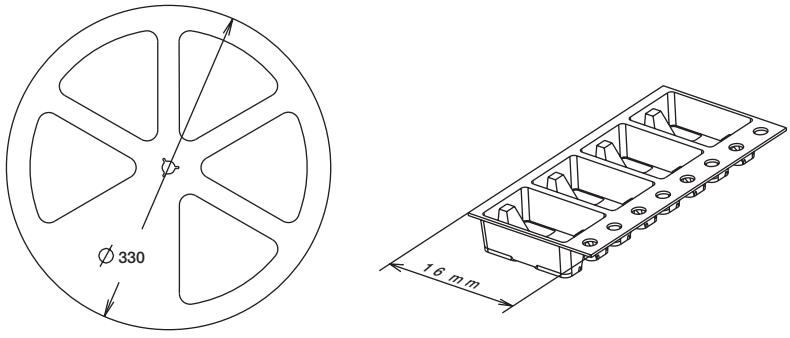

## G GULLWING




### 12 MM




### 16 MM

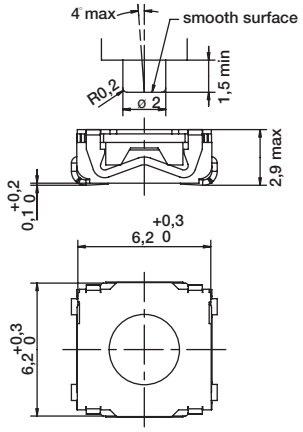



| 12 mm | Pieces | 16 mm | Pieces |
|---|---|---|---|
| KSC1J | 2,000 | KSC1G | 2,000 |
| KSC2J | 2,000 | KSC2G | 2,000 |
| KSC3J | 2,000 | KSC3G | 2,000 |
| | | KSC4J & G | 1,000 |
| | | KSC5J & G | 1,000 |
| | | KSC6J & G | 750 |
| | | KSC7J & G | 1,000 |
| | | KSC8J & G | 1,000 |
| | | KSC9J & G | 750 |
| | | KSC10J & G | 1,000 |

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC1 without actuator 2,5 mm high




| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC121 | 1.8 ± 0.65 | 200,000 | 0.3 ± 0.15 |
| KSC141 | 3 ± 0.75 | 200,000 | 0.3 ± 0.15 |
| KSC151 | 5.5 ± 1.4 | 100,000 | 0.35 ± 0.15 |

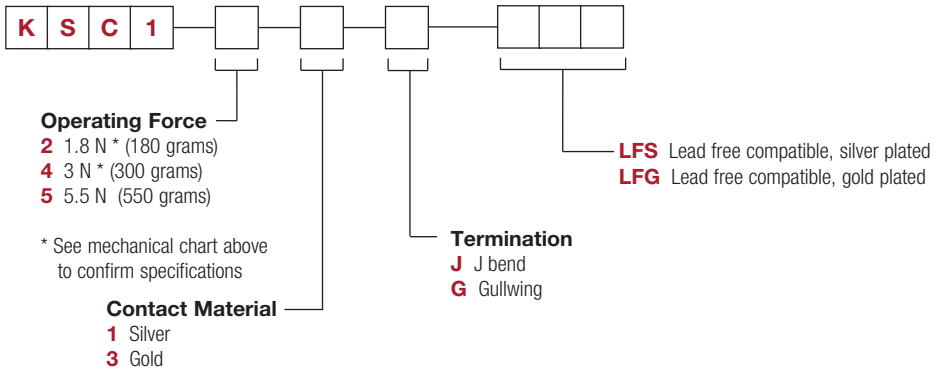
### Packaging

Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

**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.**

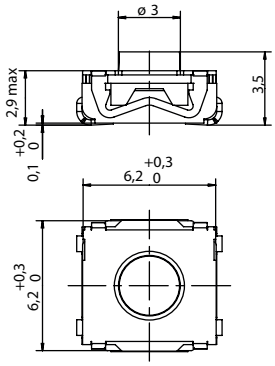



First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC2 soft actuator 3,5 mm high

| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC201 | 1.6 ± 0.6 | 5,000,000 | 0.3 ± 0.2 |
| KSC221 | 2 ± 0.5 | 500,000 | 0.35 + 0.25/- 0.15 |
| KSC222 | 2 ± 0.5 | 1,000,000 | 0.35 + 0.25/- 0.15 |
| KSC241 | 3.5 ± 0.9 | 300,000 | 0.5 ± 0.2 |
| KSC251 | 5.55 ± 1.45 | 300,000 | 0.5 ± 0.2 |
| KSC241 SPD | 3.55 ± 0.9 | 300,000 | 0.5 ± 0.2 |
| KSC251 SPD | 6.2 ± 1.55 | 100,000 | 0.6 ± 0.2 |




### Packaging

Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

### How To Order

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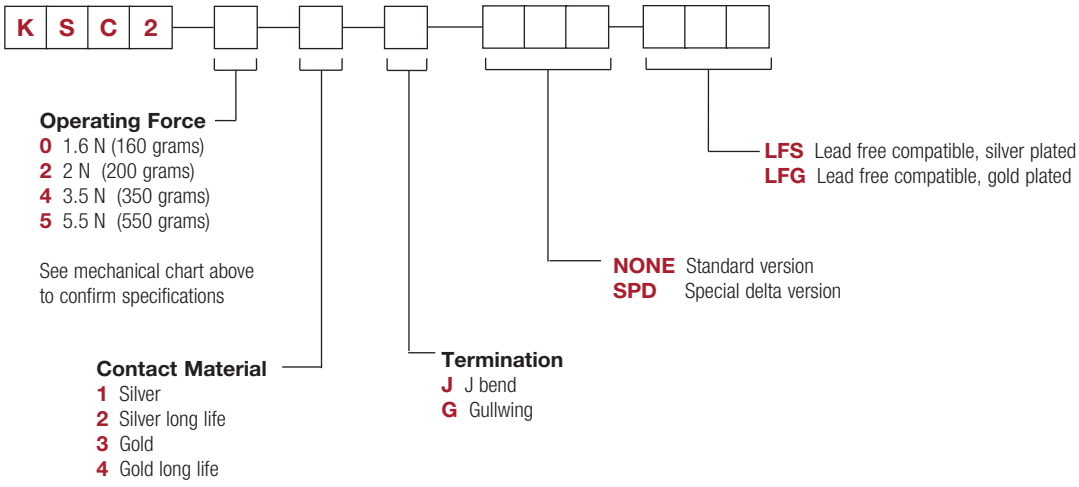
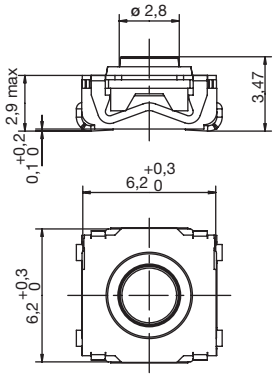



First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC3 hard actuator 3,5 mm high

| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC321 | 2 ± 0.4 | 300,000 | 0.2 + 0.3/- 0 |
| KSC341 | 3 ± 0.75 | 300,000 | 0.2 + 0.3/- 0 |
| KSC351 | 5 ± 1 | 100,000 | 0.25 + 0.3/- 0 |



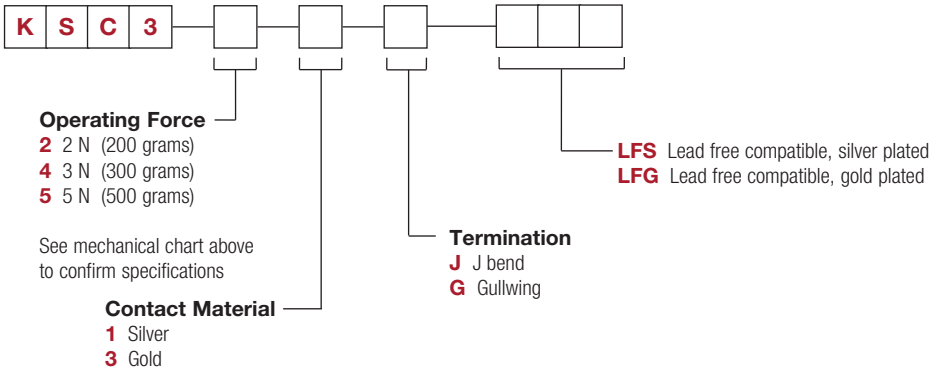

### Packaging

Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

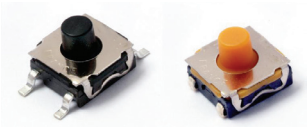
**However, please note that all the combinations of these options are not feasible.**
**For any part number different from those listed above, please consult your local representative.**



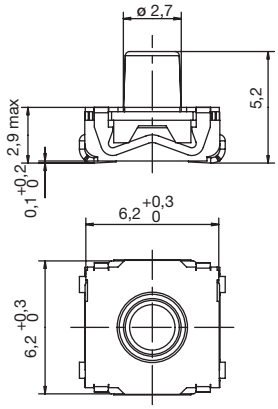

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC4 soft actuator 5,2 mm high



| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC401 50SH | 1.45 ± 0.55 | 5,000,000 | 0.5 ± 0.25 |
| KSC411 70SH | 1.4 ± 0.35 | 1,000,000 | 0.35 ± 0.20 |
| KSC421 70SH | 1.7 ± 0.45 | 300,000 | 0.5 ± 0.25 |
| KSC422 70SH | 1.7 ± 0.45 | 1,000,000 | 0.5 ± 0.25 |
| KSC441 70SH | 4 ± 1 | 300,000 | 0.75 ± 0.25 |
| KSC442 70SH | 4 ± 1 | 1,000,000 | 0.75 ± 0.25 |
| KSC451 70SH | 4.25 ± 0.75 | 300,000 | 0.8 ± 0.2 |
| KSC441 SPD | 3.5 ± 0.9 | 300,000 | 0.7 ± 0.2 |
| KSC441 ST1 | 3.4 ± 1 | 300,000 | 0.7 ± 0.25 |
| KSC441 ST2 | 3.4 ± 1 | 300,000 | 0.35 ± 0.20 |
| KSC461 ST1 | 6.25 ± 1.75 | 100,000 | 1 ± 0.3 |
| KSC461 ST2 | 6.25 ± 1.75 | 300,000 | 0.5 ± 0.2 |




### Packaging

Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

### How To Order

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**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.**

K S C 4 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

**Operating Force**
**0** 1.45 N (145 grams)
**1** 1.4N (140 grams)
**2** 1.7 N (170 grams)
**4** 4 N (400 grams)
**5** 4.25 N (425 grams)
**6** 6.25 N (625 grams)
See mechanical chart above to confirm specifications

**Contact Material**
**1** Silver
**2** Silver long life
**3** Gold
**4** Gold long life

**Termination**
**J** J bend
**G** Gullwing

**50SH** 50 shore **
**70SH** 70 shore ***
**SPD** Special delta version
**ST1** High click
**ST2** Low click

**LFS** Lead free compatible, silver plated
**LFG** Lead free compatible, gold plated

** applies to KSC401J50SH only
*** applies to KSC411J70SH, KSC421J70SH and KSC441J70SH

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

NEW

# KSC-DCT Series
# Dual Circuit Technology Tact Switch



## Features/Benefits

- *SPDT NC-NO function*
- *Silicone actuator*
- *J or G terminations*
- *Tape & reel*
- *IP67*

## Typical Applications

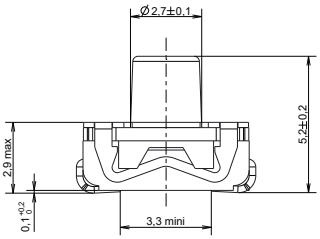
- *Automotive*
- *Medical equipment*
- *Industrial electronics*

| Type | Force (N) | Operating Life (operations) | Travel (mm) |
|---|---|---|---|
| KSC441J DCT 70SH LFS | 4.75 +/-1.25 | 300,000 | 0.85+0.35/-0.25 |
| KSC441G DCT 70SH LFS | 4.75 +/-1.25 | 300,000 | 0.85+0.35/-0.25 |

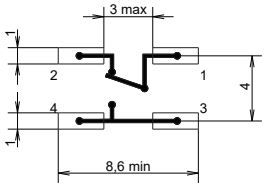
**Packaging**

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 330 ± 2 mm

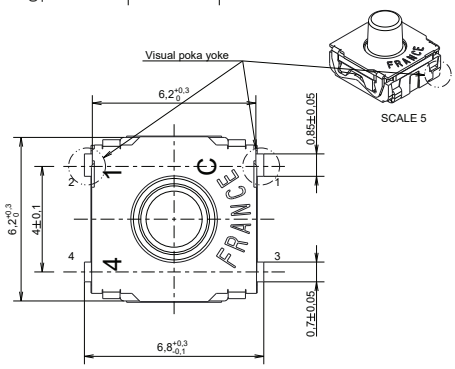



**PCB Layout**




LAYOUT - PAD
SCALE : 5

1 - 2 NC
1 - 3 NO




## How To Order

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**For any part number different from those listed above, please consult your local representative.**

K S C — 4 — 4 — 1 — [ ] — DCT — 70SH — L F S

**Force**
**4** 4.75 N

**Contact Material**
**1** Silver

**Termination**
**J** J bend
**G** Gull wing

**Actuator / Tactile**
**70SH** Silicon 70SH

**LFS** Lead free compatible, silver plated

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

# KSC-PF Series
# Potting Friendly Tact Switch

NEW

## Features/Benefits

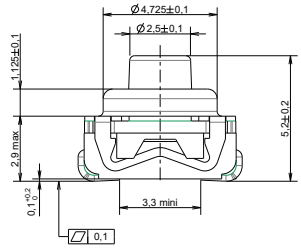
- *Extended Cage*
- *Silicone actuator*
- *J or G terminations*
- *Tape & reel*
- *IP67*

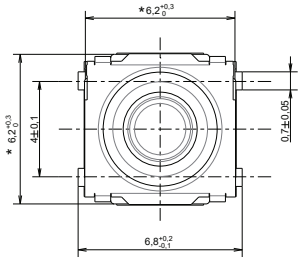
## Typical Applications

- *Automotive*
- *Medical equipment*
- *Industrial electronics*



| Type | Force (N) | Operating Life (operations) | Travel (mm) |
|---|---|---|---|
| KSC421G 70SH LFS PF | 1.8+/-0.45 | 300,000 | 0.5+/-0.25 |
| KSC421J 70SH LFS PF | 1.8+/-0.45 | 300,000 | 0.5+/-0.25 |
| KSC422G 70SH LFS PF | 1.8+/-0.45 | 1,000,000 | 0.5+/-0.25 |
| KSC422J 70SH LFS PF | 1.8+/-0.45 | 1,000,000 | 0.5+/-0.25 |
| KSC441G 70SH LFS PF | 4 +/- 1 | 300,000 | 0.65+/-0.25 |
| KSC441J 70SH LFS PF | 4 +/- 1 | 300,000 | 0.65+/-0.25 |
| KSC442G 70SH LFS PF | 4 +/- 1 | 1,000,000 | 0.65+/-0.25 |
| KSC442J 70SH LFS PF | 4 +/- 1 | 1,000,000 | 0.65+/-0.25 |
| KSC461G 70SH LFS PF | 6.25+/- 1.75 | 300,000 | 0.75+/-0.25 |
| KSC461J 70SH LFS PF | 6.25+/- 1.75 | 300,000 | 0.75+/-0.25 |
| KSC471G 70SH LFS PF | 4 +/- 1 | 300,000 | 0.65+/-0.25 |
| KSC471J 70SH LFS PF | 4 +/- 1 | 300,000 | 0.65+/-0.25 |



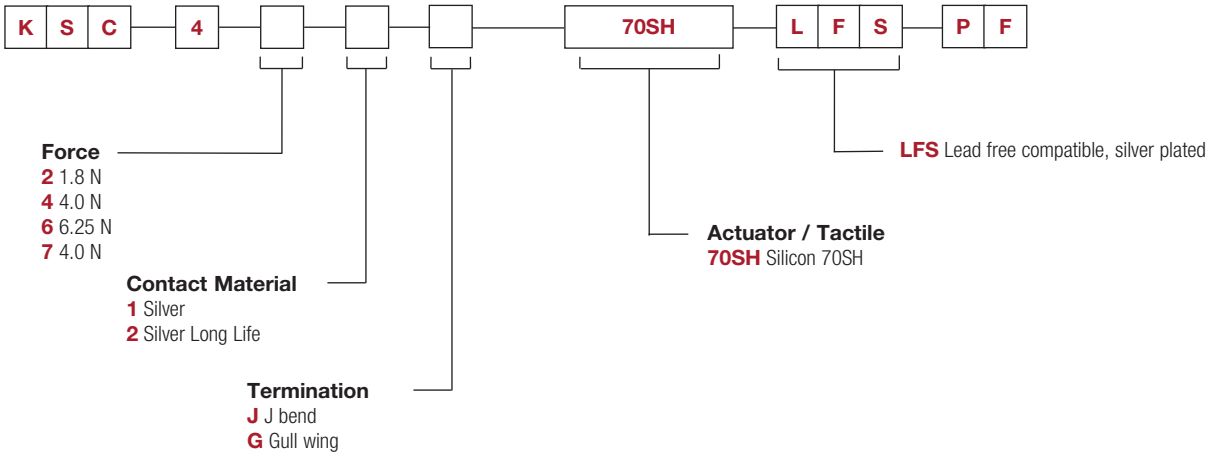




Max. potting height: 2.9 mm

**Packaging**
In reels of 1,000 pieces.
Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 330 ± 2 mm

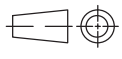
## How To Order

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.
**For any part number different from those listed above, please consult your local representative.**






*Dimensions are shown: mm*
*Specifications and dimensions subject to change*



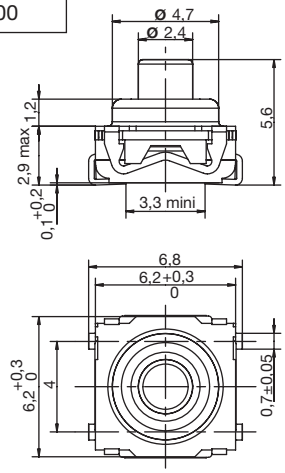

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC5 hard actuator 5,6 mm high

| Type | Operating force axial FA N (grams) | Operating force lateral FL N (grams) ±30% | Travel to make axial (mm) | Travel to make lateral (mm) | Life expectancy cycles, axial | Life expectancy cycles, lateral |
|---|---|---|---|---|---|---|
| KSC521 | 2 ± 0.5 | 1.2 - 2.6 | 0.25 ± 0.15 | 0.5 ± 0.25 | 100,000 | 10,000 |
| KSC541 | 3 ± 0.75 | 1.8 - 3.8 | 0.25 ± 0.15 | 0.5 ± 0.25 | 100,000 | 10,000 |

### Packaging

Switches delivered on continuous tape & reels of 1,000 pieces,
dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm




### How To Order

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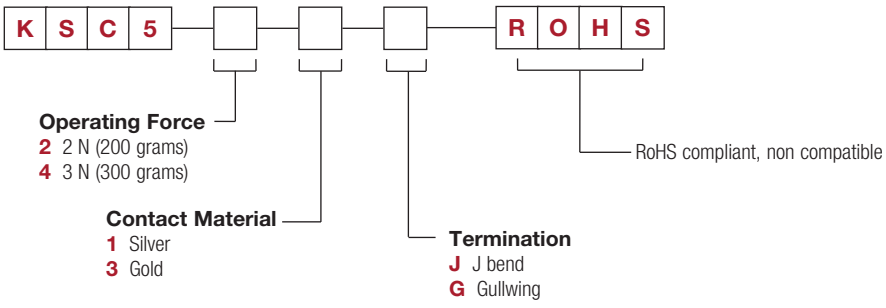
**For any part number different from those listed above, please consult your local representative.**

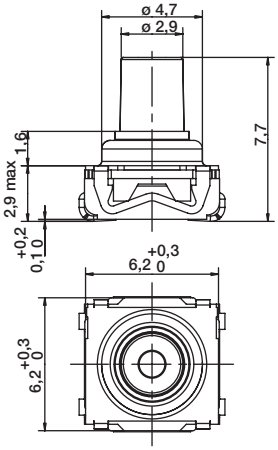



First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC6 hard actuator 7,7 mm high

| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC621 | 1.7 ± 0.5 | 300,000 | 0.4 ± 0.2 |
| KSC631 | 2.55 ± 0.65 | 300,000 | 0.4 ± 0.2 |
| KSC641 | 3.4 ± 0.85 | 300,000 | 0.4 ± 0.2 |




### Packaging

Switches delivered on continuous tape & reels of 750 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

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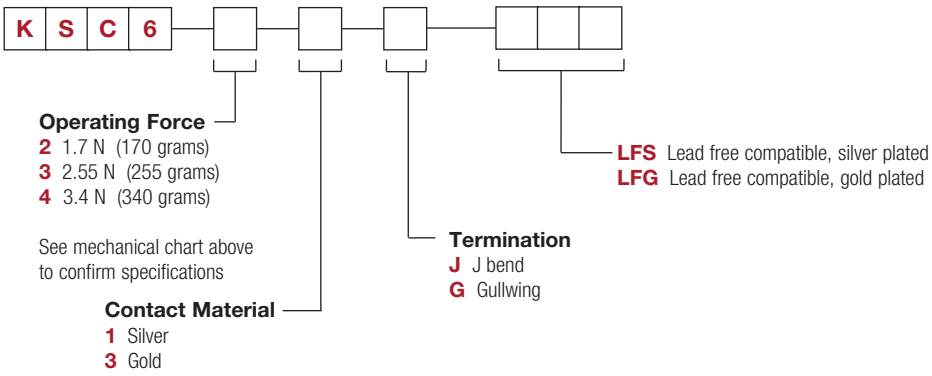
**For any part number different from those listed above, please consult your local representative.**

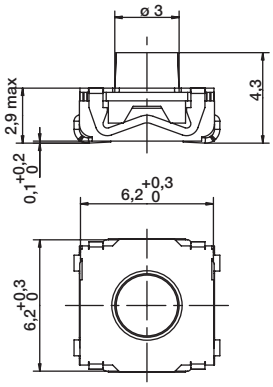



First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## KSC7 soft actuator 4,3 mm high

| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC701 | 1.6 ± 0.6 | 5,000,000 | 0.3 ± 0.2 |
| KSC721 | 2.25 ± 0.55 | 300,000 | 0.3 ± 0.15 |
| KSC741 | 3.9 ± 1 | 300,000 | 0.4 ± 0.2 |



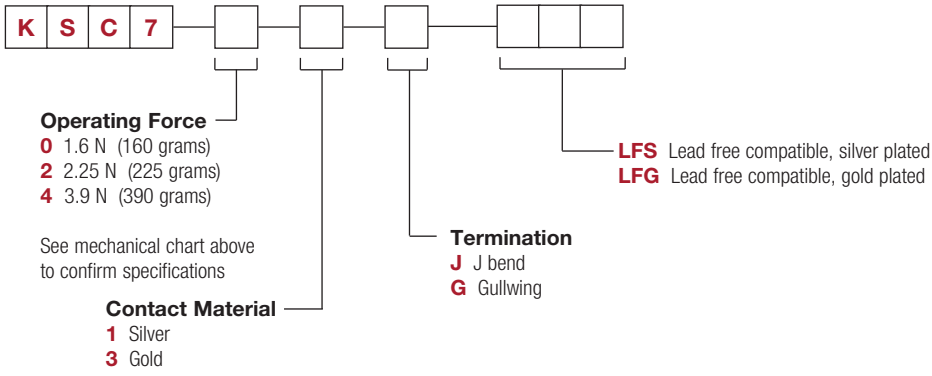

### Packaging

Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

**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.**

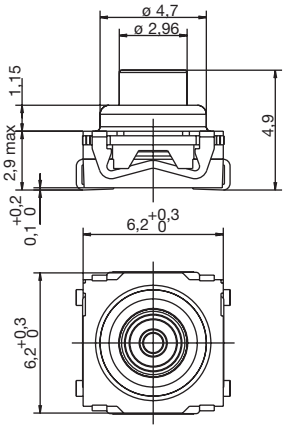



First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

### KSC8 hard actuator 4,9 mm high

| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC821 | 3.15 ± 0.75 | 300,000 | 0.65 ± 0.2 |
| KSC821 OL | 1.7 ± 0.5 | 300,000 | 0.4 ± 0.2 |
| KSC831 OL | 2.55 ± 0.65 | 300,000 | 0.4 ± 0.2 |
| KSC841 OL | 3.4 ± 0.85 | 300,000 | 0.4 ± 0.2 |



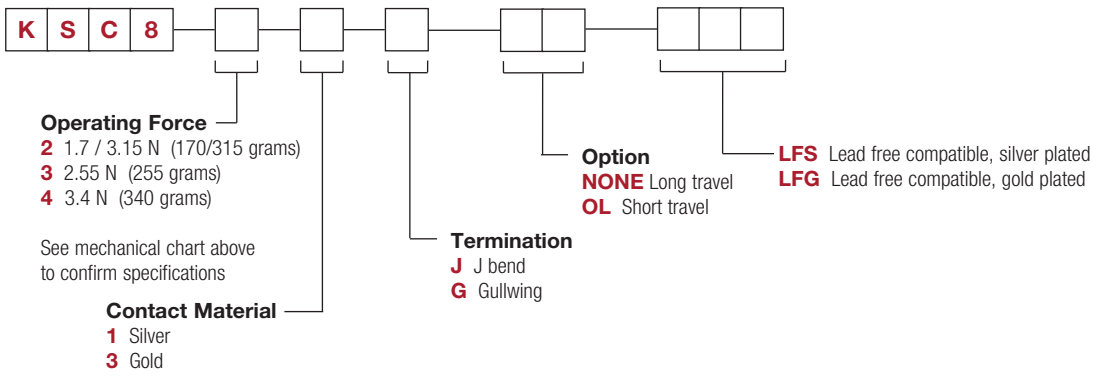

## Packaging

Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

## How To Order

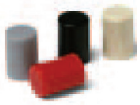
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

**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.**

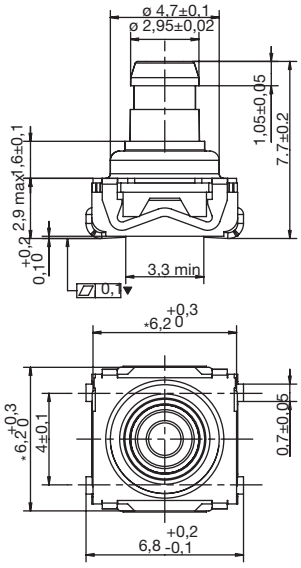


# KSC9 Series
# Sealed Tact Switches for SMT

## KSC9 hard actuator 7,7 mm high



| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC921 | 1.7 ± 0.5 | 300,000 | 0.4 ± 0.2 |
| KSC931 | 2.25 ± 0.65 | 300,000 | 0.4 ± 0.2 |
| KSC941 | 3.4 ± 0.85 | 300,000 | 0.4 ± 0.2 |

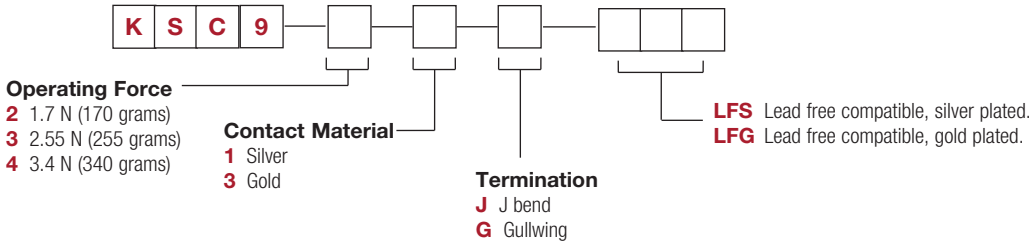


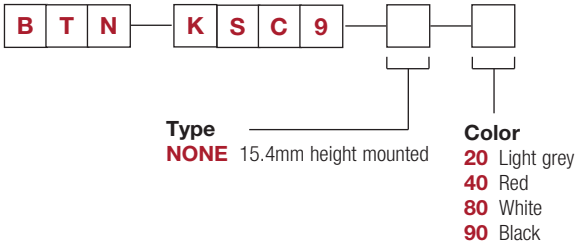

### Packaging

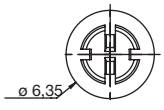
Switches delivered on continuous tape & reels of 750 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

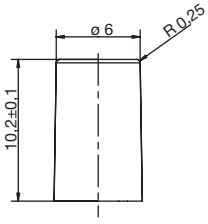
### How To Order

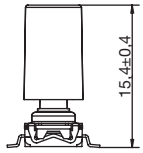
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.
**For any part number different from those listed above, please consult your local representative.**



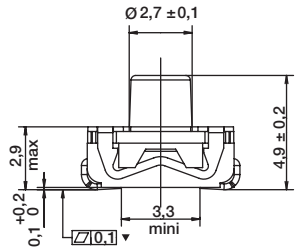



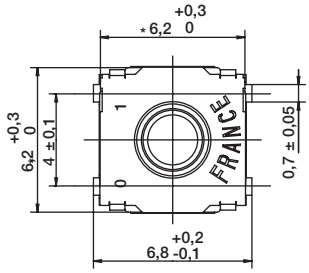

SWITCH WITH CAP

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

### KSC10 soft actuator 4,9 mm high




| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---|---|---|---|
| KSC1001 | 1.45 ± 0.55 | 5,000,000 | 0.45 ± 0.25 |

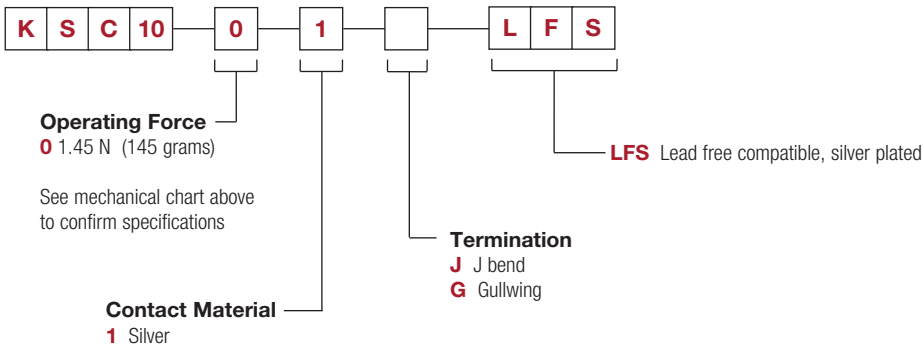
### Packaging

Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

**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.**




Note: KSC10 offered with yellow actuator as standard, hardness 55 Shore

First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

# KSC V2 Series
# Side Actuated Sealed Tact Switch



## Features/Benefits

- *Full SMD side actuated*
- *Haptic adaptability*
- *Pin in paste terminations*
- *Tape & reel*
- *IP67*

## Typical Applications

- *Automotive*
- *Industrial electronics*
- *Network equipment*
- *Telecommunications*

## Specification

FUNCTION: momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
TERMINALS:
2 pin in paste signal terminals
3 SMD ground terminals

## Mechanical

| Type | Force (N) | Operating Life (operations) | Travel (mm) |
|---|---|---|---|
| KSC201 V2 LFS | 1.6 ± 0.6 | 1,000,000 | 0.5 ± 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 | 0.5 ± 0.2 |
| KSC423 V2 RT LFG | 1.8 ± 0.5 | 300,000 | 0.5 ± 0.2 |
| KSC441 V2 RT LFS | 3.4 ± 1.0 | 300,000 | 0.35 ± 0.2 |

NOTE: Basic version is based on KSC441V2 SPDELTA LFS.
Other configurations of haptics are available upon demand.

MISUSE OVERLOAD: 40N with back support
SHEAR FORCE:10N without back support

## 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 | 0.1 mA |

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 250 Vrms
CONTACT RESISTANCE: ≤ 100 mΩ
INSULATION RESISTANCE (100 V, initial stage): > $10^9$ 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:

– 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

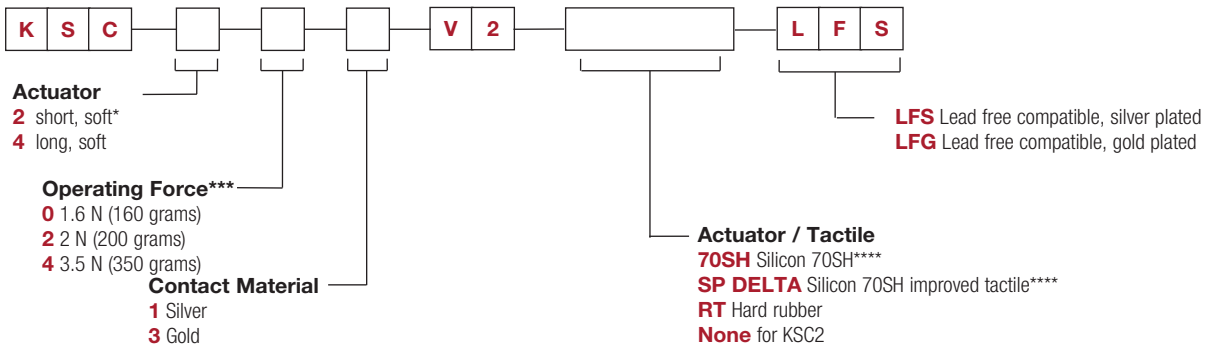
## Packaging

In reels of 800 pieces.
Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 380 mm ± 2 mm.

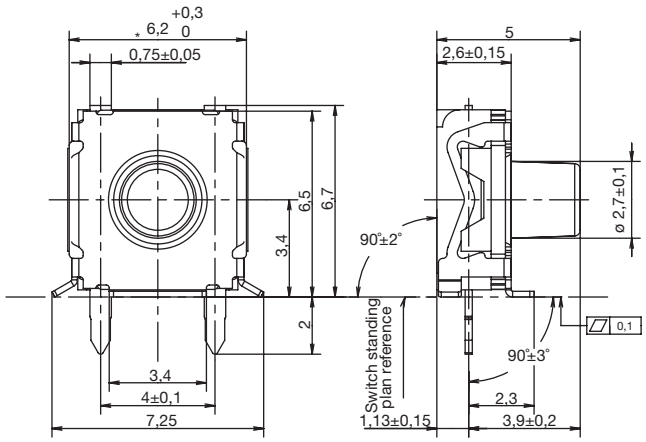
**NOTE**: This product is designed and manufactured for general electronic devices. For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

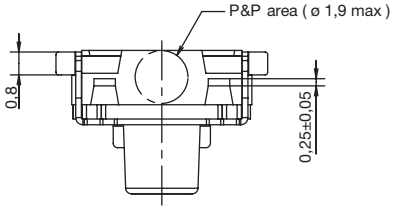
## How To Order

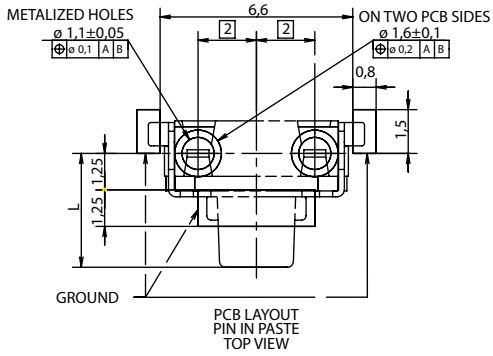
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.
**For any part number different from those listed above, please consult your local representative.**




* KSC2 version available upon demand
*** Force available upon demand (variant version)
**** Available for KSC4 only

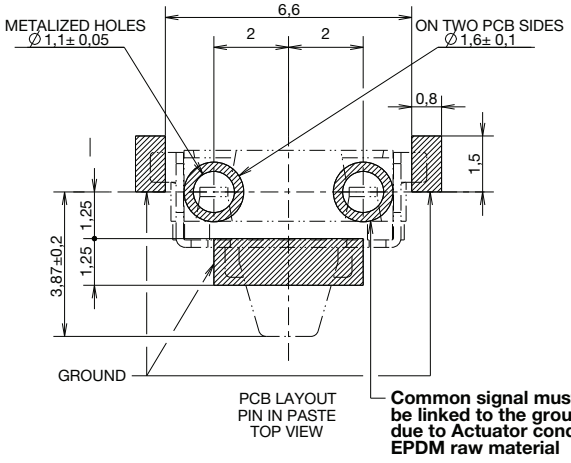



| Series | L |
|---|---|
| KSC2 | 2,3 |
| KSC4 | 3,9 |

## IMPORTANT NOTE FOR RT ACTUATOR




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).

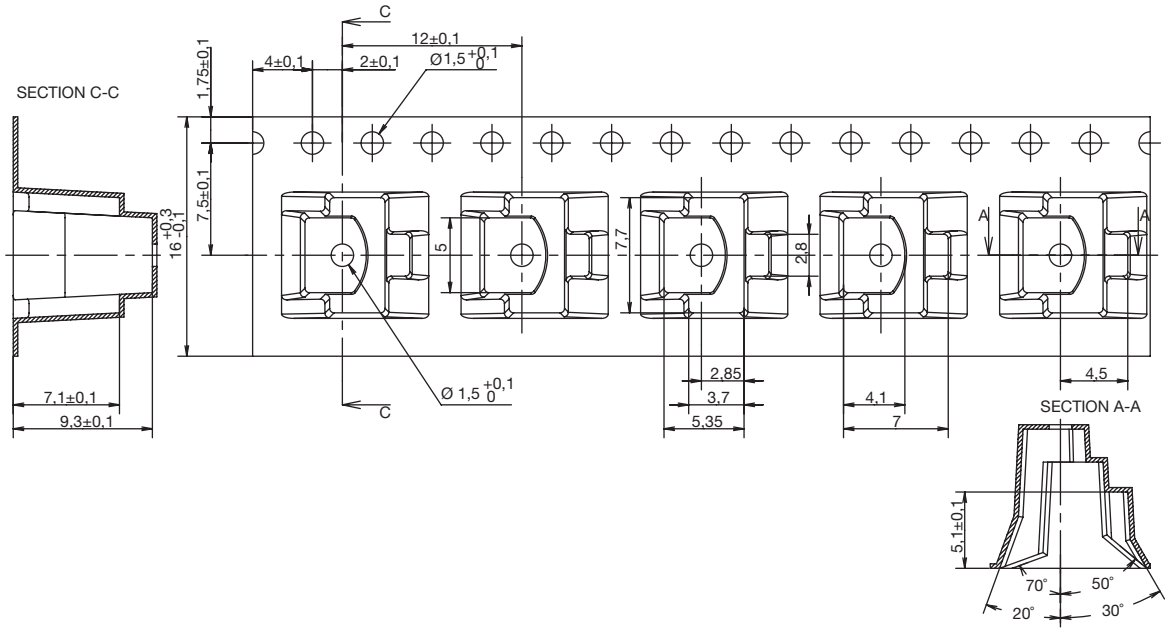
Our actuator contains carbon particles and is electrical conductive. In consequence, customer actuator must be electric insulating raw material.

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.

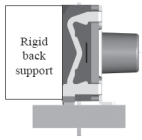
First Angle Projection

*Dimensions are shown: mm*
*Specifications and dimensions subject to change*

## TAPE AND REEL




## INTEGRATION



LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
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- *Наличие сертификата ISO.*

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