# KSU Series
# Micro Mini Surface Mount Detect Switches

## Features/Benefits
- **New multi contact construction**
- **Metal actuator**
- **Low actuating force**
- **RoHS compliant and compatible**

## Typical Applications
- **Mobile phones and other handheld devices**
- **Portable medical devices**
- **Audio devices**
- **Alarm devices**
- **Payment terminals**
- **Smart meters**

## Specifications
FUNCTION: Momentary action.
CONTACT TYPE: SPST Normally open.
TERMINALS: Gullwing type for SMT.

### Mechanical
SWITCHING FORCE: 0,7 ± 0,5 N
TRAVEL TO MAKE: 0,65 mm - 0,45/+0,25 mm
MECHANICAL TRAVEL: 1,5 ± 0,2 mm
OPERATING LIFE: 100,000 cycles

### Packaging
Switches are delivered on continuous tape, in reels of 1,000 pieces

### Electrical

| | GOLD | SILVER |
|---|---|---|
| MAXIMUM POWER: | 0.2 VA | 0.1 VA |
| MAXIMUM VOLTAGE: | 32 VDC | 32 VDC |
| MINIMUM VOLTAGE: | 20 mV | 20 mV |
| MAXIMUM CURRENT: | 10 mA | 50 mA |
| MINIMUM CURRENT: | 0.01 mA | 1 mA |
| CONTACT RESISTANCE: | ≤100 mΩ | |
| INSULATION RESISTANCE: | (100 VDC) $10^9$ Ω | |
| DIELECTRIC STRENGTH: | ≥ 250 Vrms | |
| BOUNCE TIME: | ≤ 3 ms | |

### Environmental
OPERATING TEMPERATURE: –40ºC to +125ºC    –40ºC to +85ºC
STORAGE TEMPERATURE: –55ºC to + 125ºC    –40ºC to +85ºC
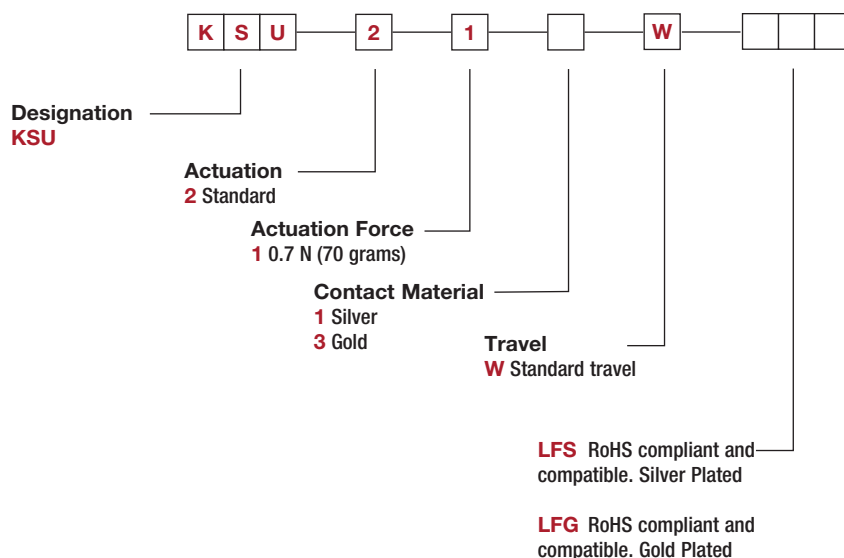
### Process
SOLDERING: Compatible with lead free reflow process

**NOTE:** Specifications listed above are for switches with standard options.
For information on specific and custom switches, consult Customer Service Center.
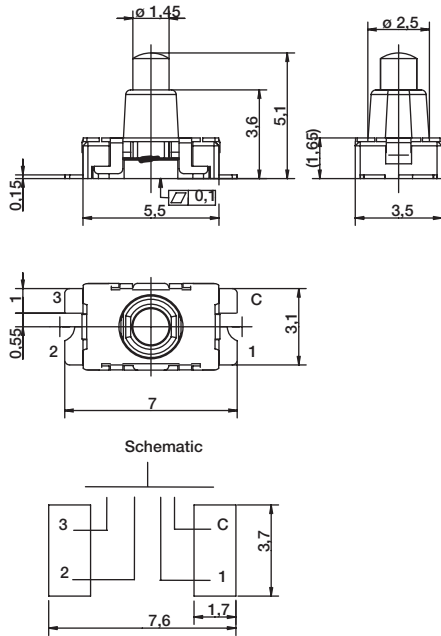
## How To Order

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.

| K | S | U | — | 2 | — | 1 | | | W | — | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Designation**
**KSU**

**Actuation**
**2** Standard

**Actuation Force**
**1** 0.7 N (70 grams)

**Contact Material**
**1** Silver
**3** Gold

**Travel**
**W** Standard travel

**LFS** RoHS compliant and compatible. Silver Plated

**LFG** RoHS compliant and compatible. Gold Plated

**Detect**
E

**C&K**

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

www.ckswitches.com

Schematic



## TAPE & REEL



SECTION B-B
SCALE 8

SECTION A-A
SCALE 8

REELING DIRECTION
OUT OF PRODUCTION

SCALE 0.25
Packaging of switches

SEE DETAIL A

E

Detect

First Angle
Projection

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

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