

# KMX Series

## Microminiature Tact Switch for SMT



### Features

- Ultra low profile 0.58mm
- Compact switch body; 4.5x4.5mm
- 1.6 and 2.2N sharp tactile feel
- 250k cycles
- $\varnothing$  1.4mm actuator grounded
- Lead free compliant

### Typical Applications

- Allows higher board density with compact SMT switch for ultra low profile environment: cell phones keypads, key fob, white goods, medical and military

### Specification

FUNCTION: Snap action push-on type SPST/shielded  
CONTACT TYPE: Normally open  
TERMINALS: Gullwing type for SMT

### Mechanical

MAXIMUM ACTUATING FORCE/LIFE: 20 N for 1,000 cycles

| Type         | Operating force<br>Newtons (grams) | Operating life<br>(operations) | Travel          |
|--------------|------------------------------------|--------------------------------|-----------------|
| KMX211G/213G | 1.6 (160) $\pm$ 30%                | 250,000                        | 0,20 $\pm$ 0,10 |
| KMX221G/223G | 2.2 (220) $\pm$ 30%                | 250,000                        | 0,20 $\pm$ 0,10 |

### Packaging

Switches are delivered in tape and reels of 10,000 pieces. The reel diameter is 380 (14.961). The tape dimensions conform to the EIA-RS-481 and EC-286-6 norms.

**NOTE:** For the latest information regarding RoHS compliance, please go to: [www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

### Electrical

|                        | Silver                | Gold   |
|------------------------|-----------------------|--------|
| MAXIMUM POWER:         | 0.5 VA                | 0.5 VA |
| MAXIMUM VOLTAGE:       | 32 VDC                | 32 VDC |
| MAXIMUM CURRENT DC:    | 50 mA                 | 20 mA  |
| MINIMUM CURRENT DC:    | 1 mA                  | 1 mA   |
| CONTACT RESISTANCE:    | $\leq$ 100 m $\Omega$ |        |
| INSULATION RESISTANCE: | $\geq$ 50 M $\Omega$  |        |
| BOUNCE TIME:           | $\leq$ 6 ms           |        |

### Environmental

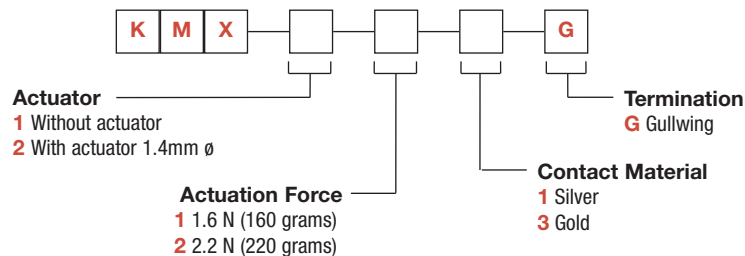
|                        | Silver        | Gold           |
|------------------------|---------------|----------------|
| OPERATING TEMPERATURE: | -40°C to 85°C | -40°C to 125°C |
| STORAGE TEMPERATURE:   | -55°C to 85°C | -55°C to 125°C |
| RELATIVE HUMIDITY      | 90 to 96%     |                |

### Process

Compatible with infrared reflow, lead free soldering and pick and place SMT machines.

### 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.

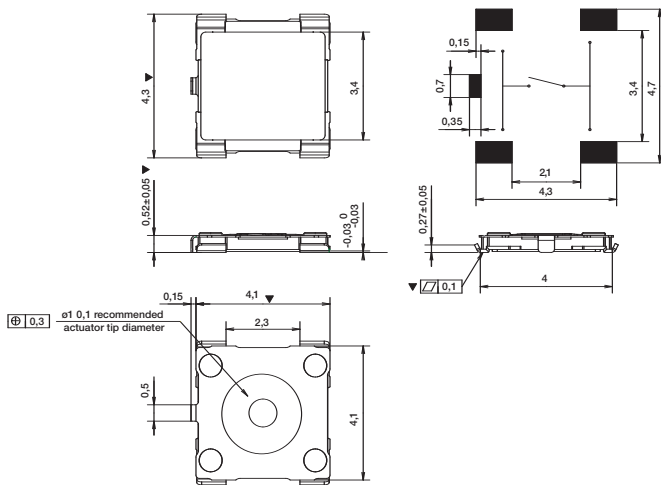


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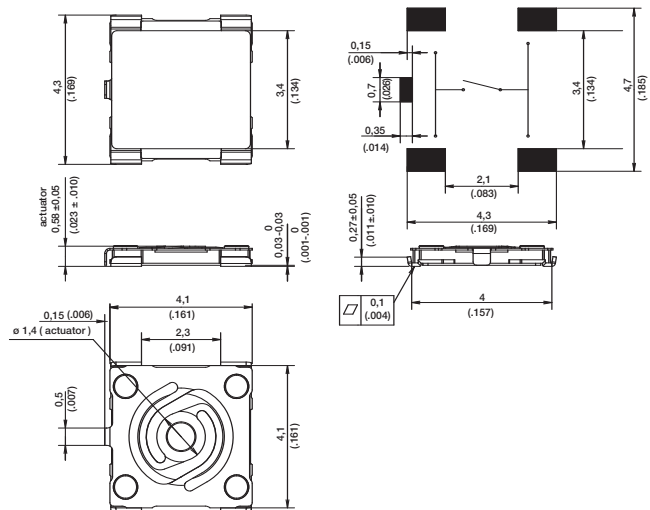
## ACTUATOR

### KMX 1

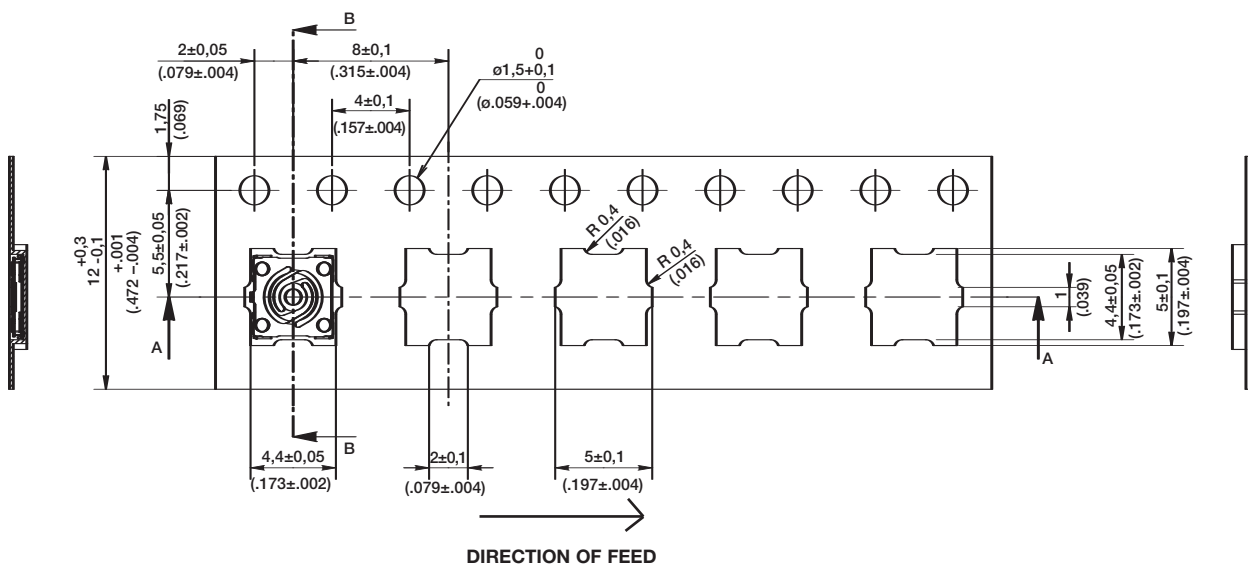
### PAD LAYOUT



### KMX 2



## TAPE & REEL



Dimensions shown in: mm (inch)  
Specifications and dimensions subject to change