

KMX Series

Low Profile SMT Top Actuated



Features

- Ultra low profile 0.58mm
- Compact switch body; 4.1x4.1mm
- 1.6 and 2.2N sharp tactile feel
- 250k cycles
- $\varnothing$ 1.4mm actuator grounded
- RoHS compliant and compatible

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

B

Tactile Switches

Specification

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

Mechanical

OVERLOAD: 50N
TACTILE FEELING: 30% min.
ACTUATION CONDITION LIMITS:
- inclination: 4° max.
- de-centering:
 * series 10Q Q.15 mm max.
 * series 20Q Q.30 mm max.
- actuator diameter: 1 mm max. with Q.1 mm radius.

Type	Operating force Newtons (grams)	Operating life (operations)	Travel
KMX211G/213G	1.6 (160) $\pm$ 30%	250,000	Q.20 $\pm$ Q.10
KMX221G/223G	2.2 (220) $\pm$ 30%	250,000	Q.20 $\pm$ Q.10

Packaging

Tape and reels in reels of 10,000 pieces.
External diameter 380mm $\pm$ 2mm.

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 Ω	
INSULATION RESISTANCE:	$\geq$ 50 M Ω	
BOUNCE TIME:	$\leq$ 6 ms	

Environmental

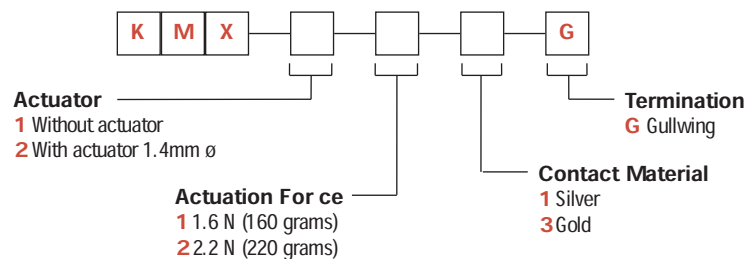
	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 85°C	-40°C to 125°C
STORAGE TEMPERATURE:	-55°C to 85°C	-55°C to 125°C
RELATIVE HUMIDITY	90 to 96%	

Process

Infrared reflow soldering in accordance with IEC 61760-1

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.



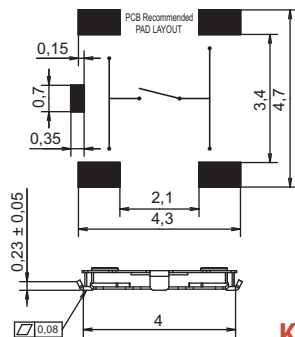
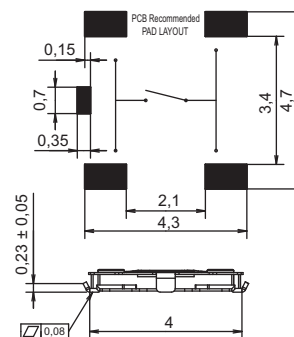
Tactile Switches

Technical drawing of a square plate with four circular holes. The drawing includes three views: a top view, a side view, and a bottom view.

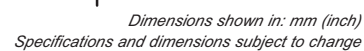
Top View: A square plate with a side length of 4.4. The plate has four circular holes, one in each corner. The holes are arranged in a square pattern with a side length of 2.3. The central hole has a diameter of 0.52 ± 0.05.

Side View: A side view of the plate showing a thickness of 0.5 ± 0.08. The central hole has a diameter of 0.52 ± 0.05.

Bottom View: A bottom view of the plate showing a square plate with a side length of 4.1. The plate has four circular holes, one in each corner. The holes are arranged in a square pattern with a side length of 2.3. The central hole has a diameter of 0.5. A note indicates that the central hole diameter is recommended.

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Technical drawing of a mechanical part, showing a side view and a cross-section. The side view includes dimensions: 12 ± 0.3 , 5.5 ± 0.05 , 1.75, 2 ± 0.05 , 8 ± 0.1 , 4 ± 0.1 , 4.4 ± 0.1 , 2 ± 0.1 , 5 ± 0.1 , 4.4 ± 0.1 , 1, 4.4 ± 0.1 , 5 ± 0.1 . It also shows a hole with diameter 1.5 ± 0.1 and two fillets with R0.4. The cross-section shows a central hole with a diameter of 1.5 ± 0.1 . A large arrow at the bottom indicates the "DIRECTION OF FEED".



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