



RKX series

**Low Profile and Microminiature SMT Top
Tact Switch**

(For external)

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March 2021

Agenda

- Market needs
- Product Overview : Features and Benefits
- Market Overview & Applications

Market Needs

- With both global automotive keyfob and medical device business recovering from year 2020, the global demand is progressing at a CAGR of over 3% during the forecast period. Rising demand of automotive electronics and medical device are one of the major factors driving the market. C&K as one of biggest global switch solution, plans to add RKX series to meet the market need, including the exact product performance together with a proper price .



RKX Product Overview and Features

Low Profile and Microminiature SMT Top Actuated TACT

- Low profile and Compact size of SMT version Tactile
- Multi- options of actuation forces and long life cycle in automotive and medical application

FEATURES

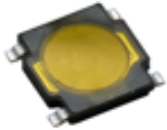


- Low profile and Microminiature package
RKA2 with 0.55mm low profile 4.5 x 4.5 mm
RKB2 with 2.5 mm height 4.2 x 3.2 mm size
RKC with 1.4 mm height 3.5 x 2.6 mm size
- SMT termination
- Hard actuator
- Multi-Options on actuation force
RKA2 with 160gf, 250gf, 400gf, 540gf
RKB2 with 180gf, 250gf, 400gf
RKC with 450gf
- Up to 500K cycles

BENEFITS

- Small and Compact size, low profile, giving designers the choice for the interface design
- Fully integrated into reflow soldering standard processes, meaning time & costs are reduced for the end equipment manufacturer
- Can be used without the additional cost and integration difficulties associated with using an additional interface button
- Offering only the most common versions used by the market allows C&K to keep tight controls on design.
- Reliability for your application, meaning less chance of costly repair or rework charges



RK Series - Specification

Specification	RKA2 Series 	RKB2 Series 	RKC Series 
Circuit configurations	SPST, momentary contact function	SPST, momentary contact function	SPST, momentary contact function
Rating	20mA @ 15 V DC	50 mA @ 12 V DC	50 mA @ 12 V DC
Electrical life	100k-500k cycles <small>Depending upon actuation force selected</small>	50k-100k cycles <small>Depending upon actuation force selected</small>	200k cycles
Operating Temperature	-40°C to 90°C	-40°C to 90°C	-40°C to 85°C
Operating force	160gf; 250 gf; 400gf, 540gf versions	180gf; 250 gf; 400gf versions	450 gf versions
Travel	0.2mm	0.2mm	0.15mm
Product Height	0.55 mm	2.5mm	1.4 mm

RKX Series Applications

- Target markets

- ✓ Automotive keyfob
- ✓ Medical equipment



Typical Applications

- Keyfob
- Navigation
- Health & medical devices



RKX Series - Applications



Keyfob



Navigation for vehicle



Medical devices



Health Monitoring

RKX series Build–A–Switch

Understanding of product characteristic & functionality

- How to order

