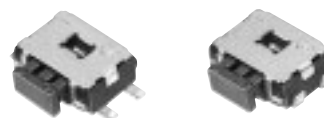


Small-sized Side-operational SMD Light Touch Switches

Type: **EVQPU**



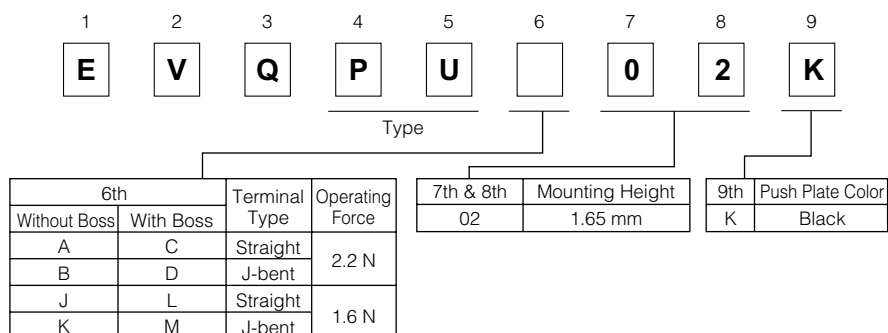
■ Features

- External dimensions : 4.7 mm×3.5 mm, Height 1.65 mm
- A wide range of terminal type : J-bent, Straight

■ Recommended Applications

- Car navigation, Car audio

■ Explanation of Part Numbers

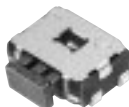
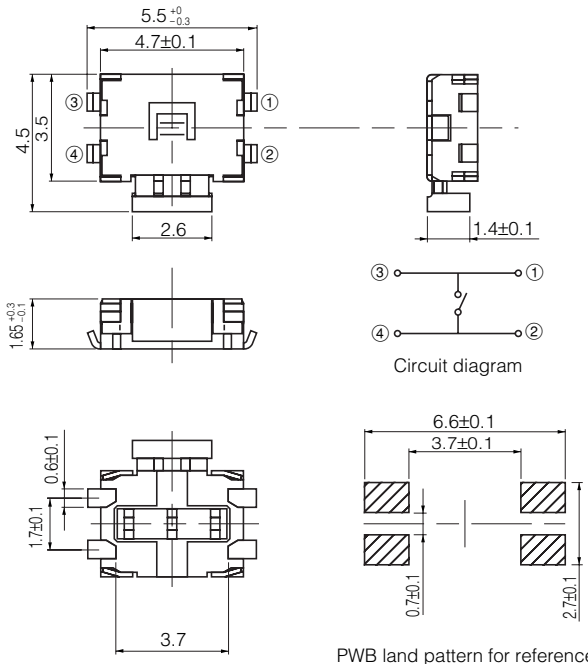
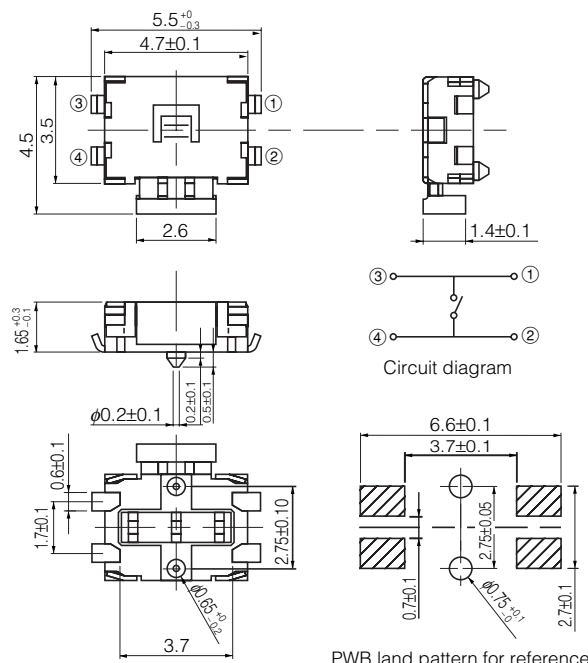


■ Specifications

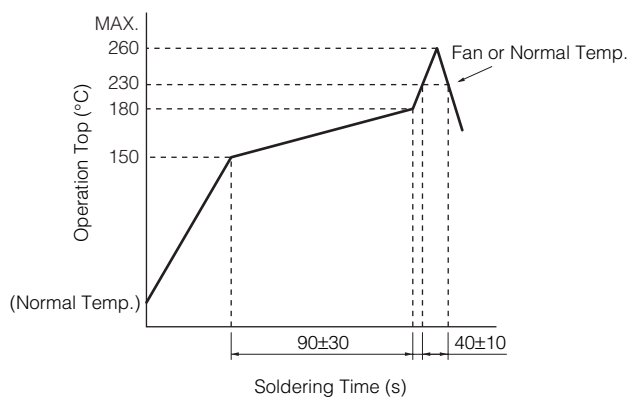
Type	Snap action / Push-on type SPST	
Electrical	Rating	10 μ A 2 Vdc to 50 mA 12 Vdc (Resistive load)
	Contact Resistance	500 m Ω max.
	Insulation Resistance	100 M Ω min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N ^{+0.7} _{-0.4} N
	Travel	0.3 mm ^{+0.1} _{-0.2} mm
	Push Strength	30 N (1 minute)
Endurance	Operating Life	100000 cycles min.
Operating Temperature		-20 °C to +70 °C
Storage Temperature		-40 °C to +85 °C (Bulk)
		-20 °C to +60 °C (Taping)
Minimum Quantity/Packing Unit		4000 pcs. Embossed Taping (Reel Pack)
Quantity/Cartron		20000 pcs.

No. 1 EVQPUJ EVQPUA (Embossed Taping) With straight terminals Without boss	Technical drawings for EVQPUJ and EVQPUA components. The top view shows a square package with dimensions: overall width 6.4±0.3, inner width 4.7±0.1, height 4.5, terminal width 3.5, terminal pitch 2.6, and terminal width 1.4±0.1. The side view shows a height of 1.65±0.30. The bottom view shows a central square with dimensions: overall width 3.7, terminal width 1.7±0.1, terminal pitch 0.6±0.1, and terminal width 0.7±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern for reference shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, terminal width 2.7±0.1, terminal pitch 0.7±0.1, and terminal width 0.7±0.1.
Part Numbers EVQPUJ02K EVQPUA02K	Operating Force 1.6 N 2.2 N Height 1.65 mm 1.65 mm Push Plate Color Black Black Operating Life 100000 cycles 100000 cycles
No. 2 EVQPUL EVQPUC (Embossed Taping) With straight terminals With boss	Technical drawings for EVQPUL and EVQPUC components. The top view shows a square package with dimensions: overall width 6.4±0.3, inner width 4.7±0.1, height 4.5, terminal width 3.5, terminal pitch 2.6, and terminal width 1.4±0.1. The side view shows a height of 1.65±0.3. The bottom view shows a central square with dimensions: overall width 3.7, terminal width 1.7±0.1, terminal pitch 0.6±0.1, and terminal width 0.7±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern for reference shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, terminal width 2.7±0.1, terminal pitch 0.7±0.1, and terminal width 0.7±0.1. The PWB land pattern also includes dimensions for the central square: overall width 2.75±0.10, inner width 2.75±0.05, and terminal width 0.75±0.1.
Part Numbers EVQPUL02K EVQPUC02K	Operating Force 1.6 N 2.2 N Height 1.65 mm 1.65 mm Push Plate Color Black Black Operating Life 100000 cycles 100000 cycles

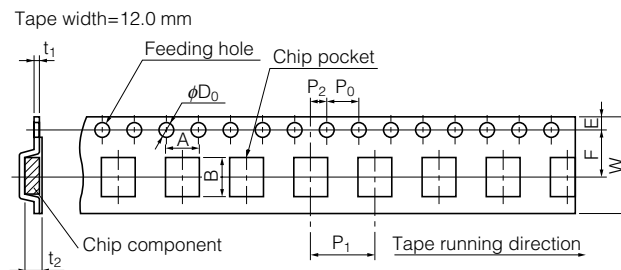
■ Dimensions in mm (not to scale)

No. 3 EVQPUK EVQPUB (Embossed Taping) With J-bent terminals Without boss 		 PWB land pattern for reference		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUK02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUB02K	2.2 N	1.65 mm	Black	100000 cycles
No. 4 EVQPUM EVQPUD (Embossed Taping) With J-bent terminals With boss 		 PWB land pattern for reference		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUM02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUD02K	2.2 N	1.65 mm	Black	100000 cycles

■ Recommended Reflow Soldering Conditions



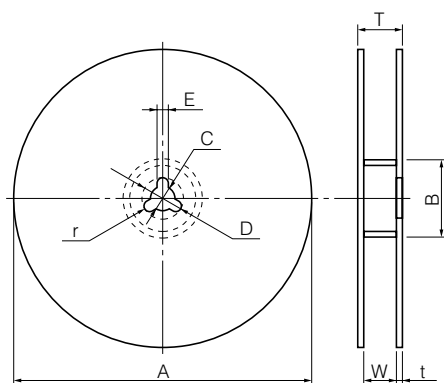
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQPU	1.65	7.0 ± 0.2	5.75 ± 0.20	12.0 ± 0.3	5.78 ± 0.20	1.75 ± 0.10	8.0 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	$1.5^{+0.1}_{-0}$	0.35 ± 0.05	2.4 ± 0.2

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	$\phi 370.0 \pm 2.0$	$\phi 50.0$ min.	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	2.0 ± 0.5
Item	W	T	t	r	
Rate (mm)	14.0 ± 1.5	—	1.0 to 3.0	1.0 ± 0.5	