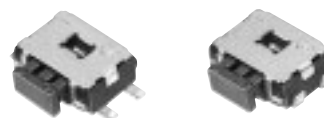


Small-sized Side-operational SMD Light Touch Switches

Type: **EVQPU**



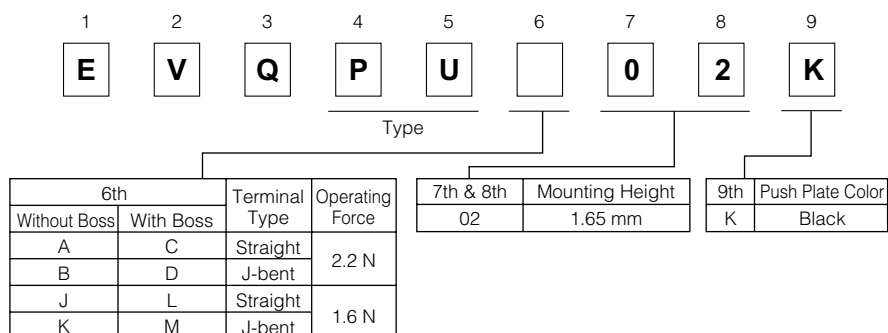
■ Features

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

■ Recommended Applications

- Operation switches for portable electronic equipment
(Mobile phones, Digital still cameras, Camcorders,
Portable audio players, etc.)

■ 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	2.2 N ^{+0.8} _{-0.7} 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.	

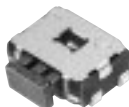
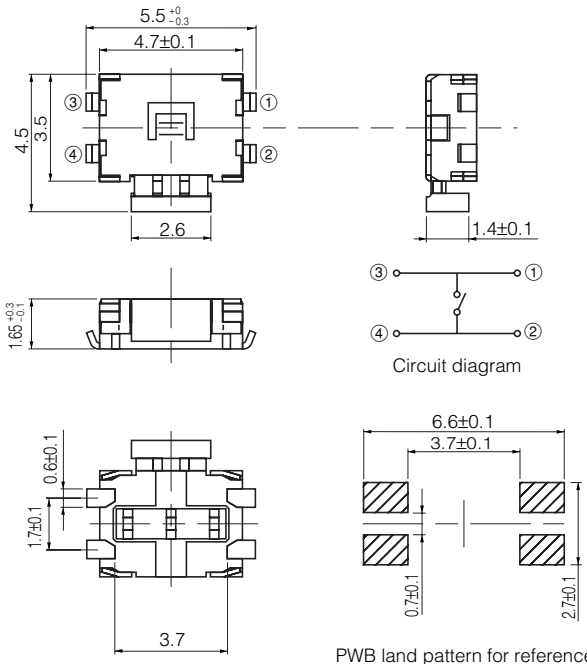
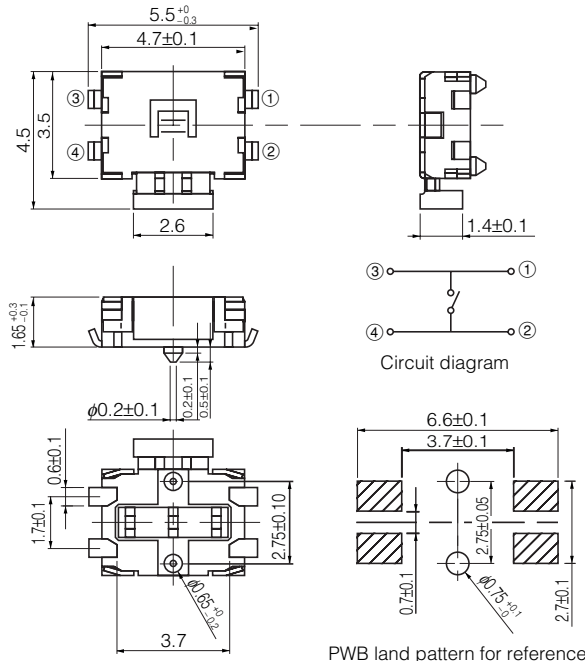
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Oct. 2012

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^{+0.0}_{-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^{+0.05}_{-0.10}. The cross-section shows a height of 0.6±0.1 and a width of 1.7±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, height 0.7±0.1, and terminal width 2.7±0.1. PWB land pattern for reference
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^{+0.0}_{-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}_{-0.1}. The cross-section shows a height of 0.6±0.1 and a width of 1.7±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, height 0.7±0.1, and terminal width 2.7±0.1. The PWB land pattern also includes a central circular pad with a diameter of 0.2±0.1 and a circular pad with a diameter of 0.05±0.02. PWB land pattern for reference
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

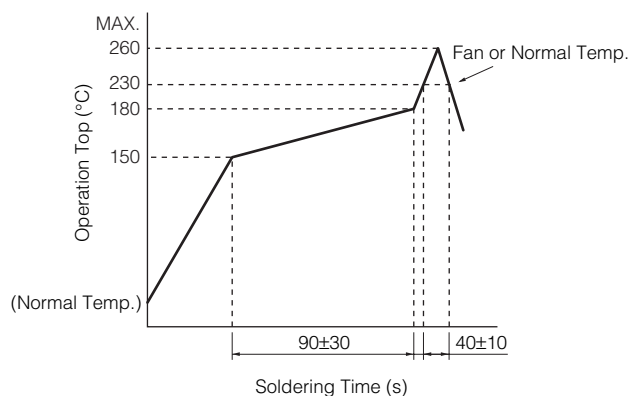
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■ Dimensions in mm (not to scale)

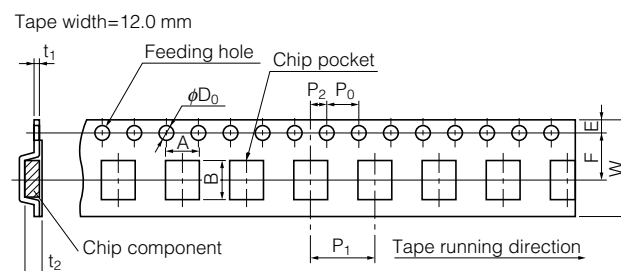
No. 3 EVQPUK EVQPUB (Embossed Taping) With J-bent terminals Without boss 		 PWB land pattern for reference		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUK02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUB02K	2.2 N	1.65 mm	Black	100000 cycles
No. 4 EVQPUM EVQPUD (Embossed Taping)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

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■ Recommended Reflow Soldering Conditions



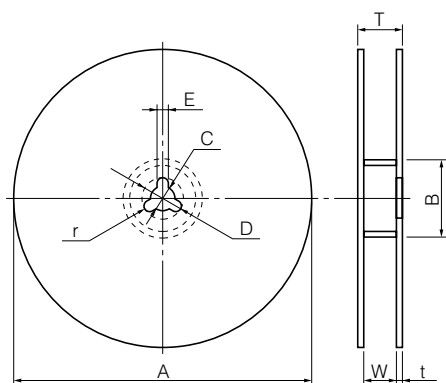
● Embossed Carrier Taping



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