

Super Small-sized Side-push Type Surface Mount Light Touch Switches

Japan

Type: **EVQPU**

A super small-sized, low-profile side-push-type surface mount light touch switch with outer dimensions of 4.7 mm × 3.5 mm, 1.6 mm in height



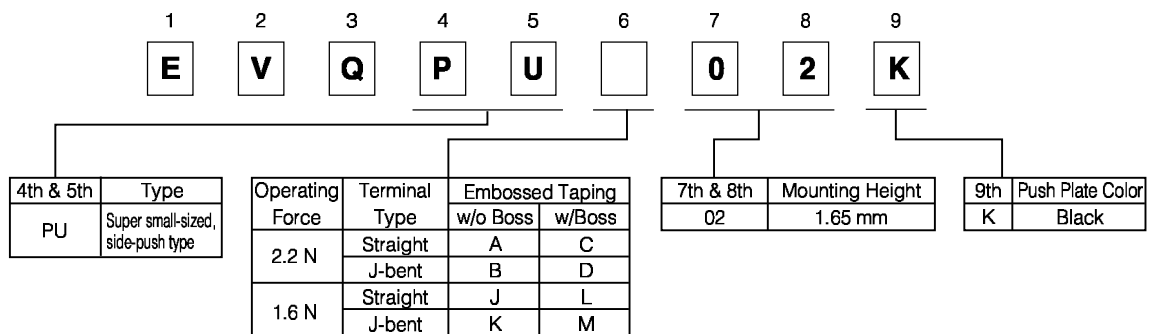
■ Features

- Long life and excellent operational feeling, using a miniaturized, round-shaped movable contactor
- High contact reliability (sealed structure)
- High mountability using J-bent terminals

■ Recommended Applications

- Signal input switch for Mobile Communication Equipment, Audio Visual Equipment, Office Automation Equipment

■ Explanation of Part Numbers


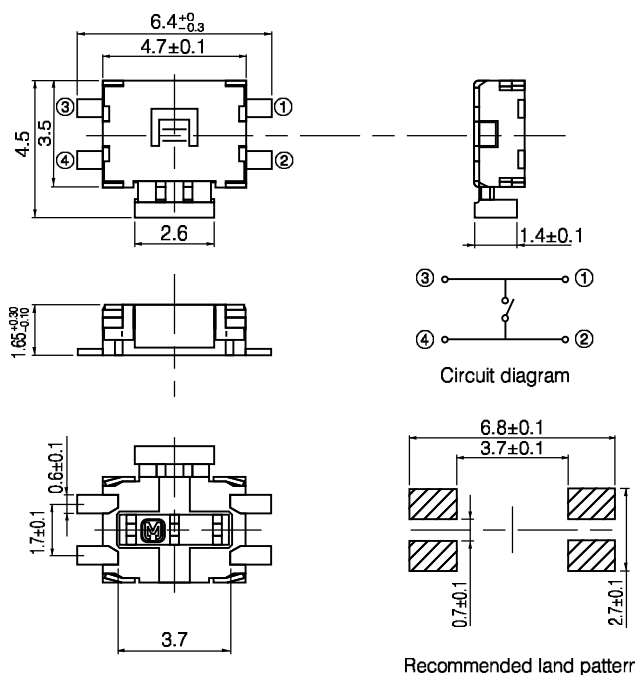

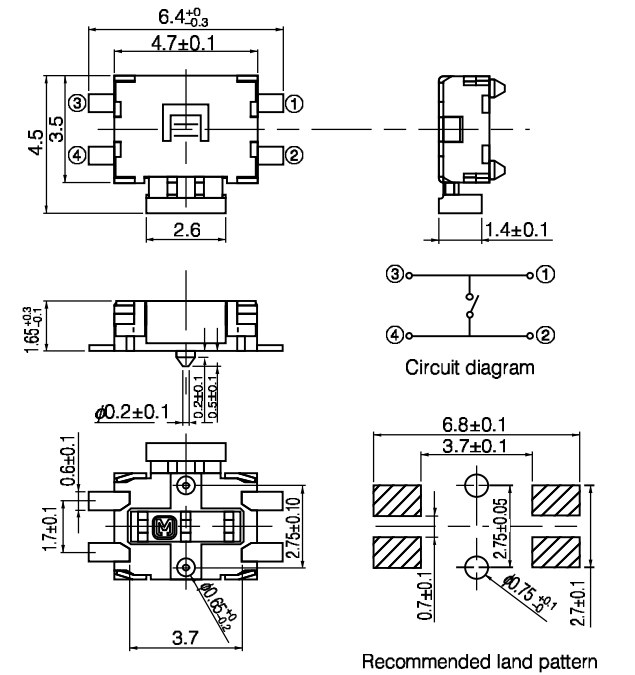


■ Major Specifications


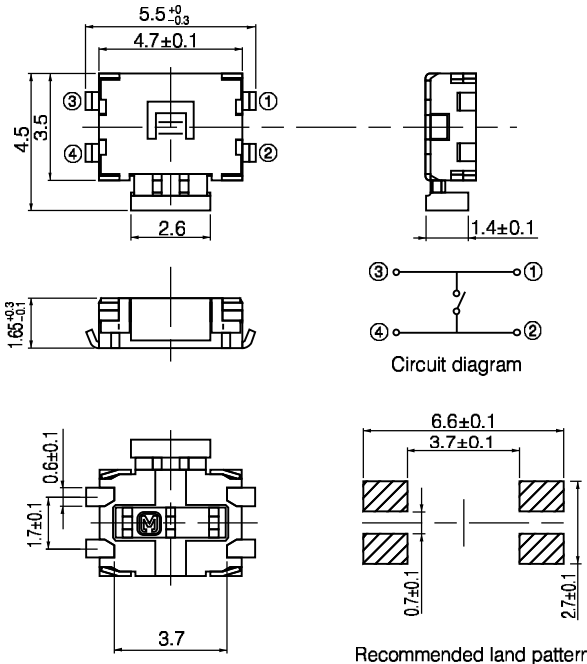

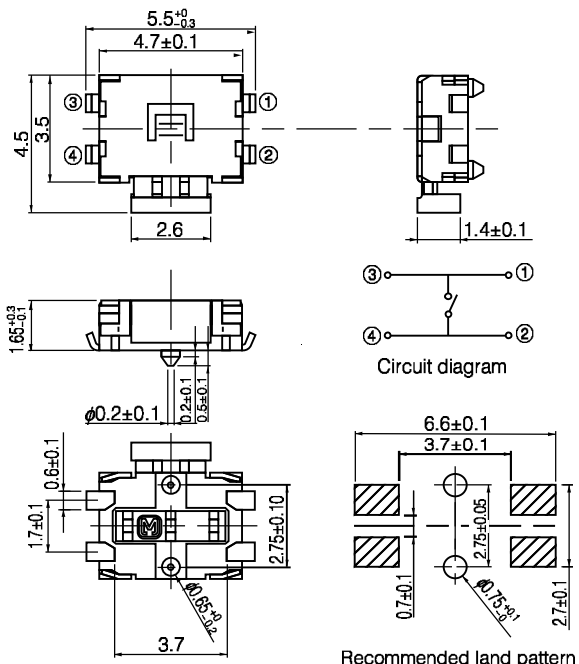
Type		Snap action/Push-on type SPST	
Electrical	Rating	50 mA 12 Vdc	
	Contact Resistance	500 mΩ max.	
	Insulation Resistance	100 MΩ min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	10 ms max.	
Mechanical	Operating Force	1.6 N ^{+0.7} / _{-0.4} N	2.2 N ^{+0.8} / _{-0.7} N
	Returning Force	0.1 N min.	0.2 N min.
	Push Strength	30 N (1 minute)	
	Travel	0.3 mm ^{+0.1} / _{-0.2} mm	
Endurance	Operating Life	100000 cycles min.	
	Operating Temperature	-25 °C to +70 °C	
	Storage Temperature	Bulk: -40 °C to +85 °C (Embossed Taping: -20 °C to +60 °C)	
Minimum Quantity/Packing Unit		4000 pcs. (Reel Pack)	
Quantity/Carton		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.

■ Dimensions in mm (not to scale)

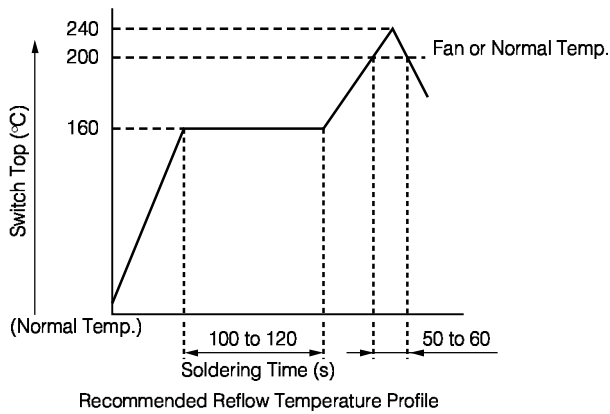
<p>No. 1</p> <p>EVQPUJ EVQPUA</p> <p>(Embossed Taping)</p> <p>With straight terminals Without boss</p> 				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQPUJ02K</p>	<p>1.6 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPUA02K</p>	<p>2.2 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 2</p> <p>EVQPUL EVQPUC</p> <p>(Embossed Taping)</p> <p>With straight terminals With boss</p> 				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQPUL02K</p>	<p>1.6 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPUC02K</p>	<p>2.2 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>

■ Dimensions in mm (not to scale)

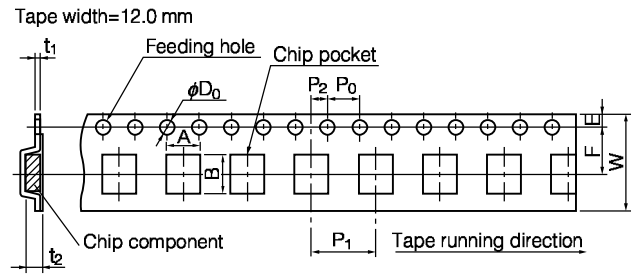
<p>No. 3</p> <p>EVQPUK EVQPUB</p> <p>(Embossed Taping)</p> <p>With J-bent terminals Without boss</p> 	 <p>Technical drawings for No. 3 switch including top view, side view, front view, circuit diagram, and recommended land pattern. Dimensions are provided in mm.</p>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQPUK02K</p>	<p>1.6 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPUB02K</p>	<p>2.2 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 4</p> <p>EVQPUM EVQPUD</p> <p>(Embossed Taping)</p> <p>With J-bent terminals With boss</p> 	 <p>Technical drawings for No. 4 switch including top view, side view, front view, circuit diagram, and recommended land pattern. Dimensions are provided in mm.</p>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVQPUM02K</p>	<p>1.6 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQPUD02K</p>	<p>2.2 N</p>	<p>1.65 mm</p>	<p>Black</p>	<p>100000 cycles</p>

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Recommended Reflow Soldering Conditions



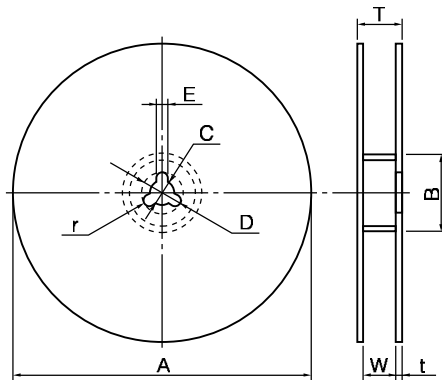
Embossed Carrier Taping



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±0.10	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)	φ370.0±2.0	φ50.0 min.	φ13.0±0.5	φ21.0±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