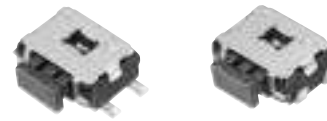


Small-sized Side-operational SMD Light Touch Switches

Type: **EVQPU**



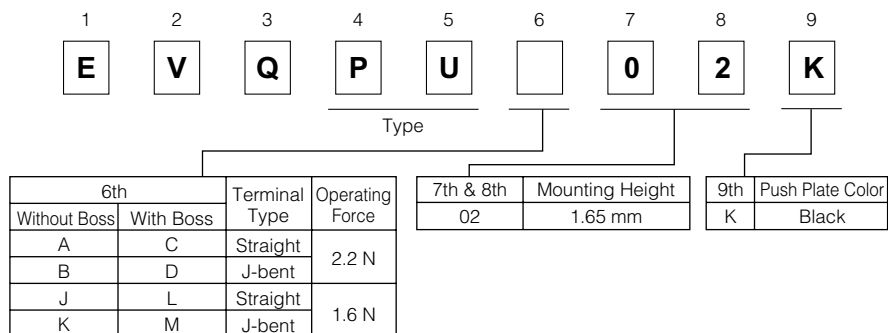
■ Features

- 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.	

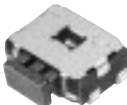
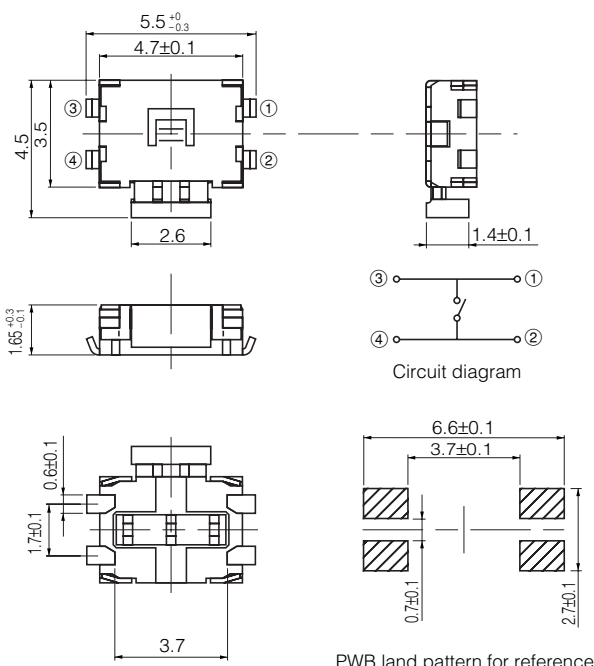

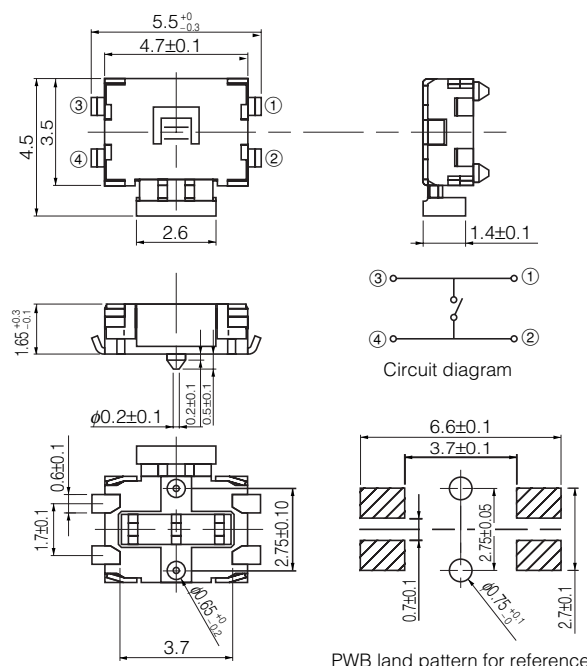
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

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<div data-bbox="142 226 295 253" data-label="Section-Header"> <p>No. 1</p> </div> <div data-bbox="142 271 261 336" data-label="Text"> <p>EVQPUJ EVQPUA</p> </div> <div data-bbox="142 344 440 454" data-label="Text"> <p>(Embossed Taping)</p> <p>With straight terminals</p> <p>Without boss</p> </div> <div data-bbox="215 640 360 768" data-label="Image"> </div>	<div data-bbox="627 244 1257 916" data-label="Diagram"> <p>Technical drawings for No. 1 components (EVQPUJ, EVQPUA) showing dimensions and circuit diagram.</p> <p>Top view dimensions: 6.4^{+0.0}_{-0.3}, 4.7±0.1, 4.5, 3.5, 2.6, 1.65^{+0.05}_{-0.10}.</p> <p>Side view dimensions: 1.4±0.1.</p> <p>Bottom view dimensions: 1.7±0.1, 0.6±0.1, 3.7.</p> <p>Circuit diagram: A switch with terminals ①, ②, ③, and ④.</p> <p>PWB land pattern for reference: Dimensions include 6.8±0.1, 3.7±0.1, 0.7±0.1, 2.7±0.1, and 0.6±0.1.</p> </div>
<div data-bbox="209 1016 375 1046" data-label="Text"> <p>Part Numbers</p> </div> <div data-bbox="215 1055 368 1081" data-label="Text"> <p>EVQPUJ02K</p> </div> <div data-bbox="215 1090 368 1120" data-label="Text"> <p>EVQPUA02K</p> </div>	<div data-bbox="474 1016 660 1046" data-label="Text"> <p>Operating Force</p> </div> <div data-bbox="534 1055 600 1081" data-label="Text"> <p>1.6 N</p> </div> <div data-bbox="534 1090 600 1120" data-label="Text"> <p>2.2 N</p> </div> <div data-bbox="778 1016 858 1046" data-label="Text"> <p>Height</p> </div> <div data-bbox="772 1055 865 1081" data-label="Text"> <p>1.65 mm</p> </div> <div data-bbox="772 1090 865 1120" data-label="Text"> <p>1.65 mm</p> </div> <div data-bbox="978 1016 1171 1046" data-label="Text"> <p>Push Plate Color</p> </div> <div data-bbox="1037 1055 1110 1081" data-label="Text"> <p>Black</p> </div> <div data-bbox="1037 1090 1110 1120" data-label="Text"> <p>Black</p> </div> <div data-bbox="1243 1016 1409 1046" data-label="Text"> <p>Operating Life</p> </div> <div data-bbox="1243 1055 1409 1081" data-label="Text"> <p>100000 cycles</p> </div> <div data-bbox="1243 1090 1409 1120" data-label="Text"> <p>100000 cycles</p> </div>
<div data-bbox="142 1137 295 1164" data-label="Section-Header"> <p>No. 2</p> </div> <div data-bbox="142 1193 261 1256" data-label="Text"> <p>EVQPUL EVQPUC</p> </div> <div data-bbox="142 1265 440 1377" data-label="Text"> <p>(Embossed Taping)</p> <p>With straight terminals</p> <p>With boss</p> </div> <div data-bbox="215 1561 360 1691" data-label="Image"> </div>	<div data-bbox="627 1164 1257 1839" data-label="Diagram"> <p>Technical drawings for No. 2 components (EVQPUL, EVQPUC) showing dimensions and circuit diagram.</p> <p>Top view dimensions: 6.4^{+0.0}_{-0.3}, 4.7±0.1, 4.5, 3.5, 2.6, 1.65^{+0.05}_{-0.10}.</p> <p>Side view dimensions: 1.4±0.1.</p> <p>Bottom view dimensions: 1.7±0.1, 0.6±0.1, 3.7, 2.75±0.10, 0.2±0.1, 0.2±0.1, 0.5±0.1, 0.05^{+0.02}_{-0.02}.</p> <p>Circuit diagram: A switch with terminals ①, ②, ③, and ④.</p> <p>PWB land pattern for reference: Dimensions include 6.8±0.1, 3.7±0.1, 0.7±0.1, 2.7±0.1, 0.6±0.1, 2.75±0.05, and 0.05^{+0.02}_{-0.02}.</p> </div>
<div data-bbox="209 1939 375 1966" data-label="Text"> <p>Part Numbers</p> </div> <div data-bbox="215 1975 368 2004" data-label="Text"> <p>EVQPUL02K</p> </div> <div data-bbox="215 2013 368 2040" data-label="Text"> <p>EVQPUC02K</p> </div>	<div data-bbox="474 1939 660 1966" data-label="Text"> <p>Operating Force</p> </div> <div data-bbox="534 1975 600 2004" data-label="Text"> <p>1.6 N</p> </div> <div data-bbox="534 2013 600 2040" data-label="Text"> <p>2.2 N</p> </div> <div data-bbox="778 1939 858 1966" data-label="Text"> <p>Height</p> </div> <div data-bbox="772 1975 865 2004" data-label="Text"> <p>1.65 mm</p> </div> <div data-bbox="772 2013 865 2040" data-label="Text"> <p>1.65 mm</p> </div> <div data-bbox="978 1939 1171 1966" data-label="Text"> <p>Push Plate Color</p> </div> <div data-bbox="1037 1975 1110 2004" data-label="Text"> <p>Black</p> </div> <div data-bbox="1037 2013 1110 2040" data-label="Text"> <p>Black</p> </div> <div data-bbox="1243 1939 1409 1966" data-label="Text"> <p>Operating Life</p> </div> <div data-bbox="1243 1975 1409 2004" data-label="Text"> <p>100000 cycles</p> </div> <div data-bbox="1243 2013 1409 2040" data-label="Text"> <p>100000 cycles</p> </div>

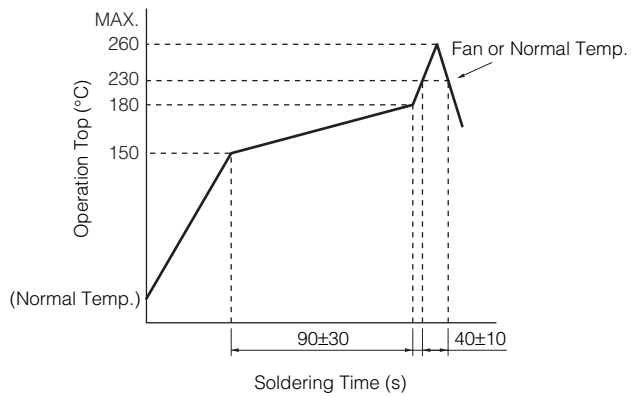
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■ Dimensions in mm (not to scale)

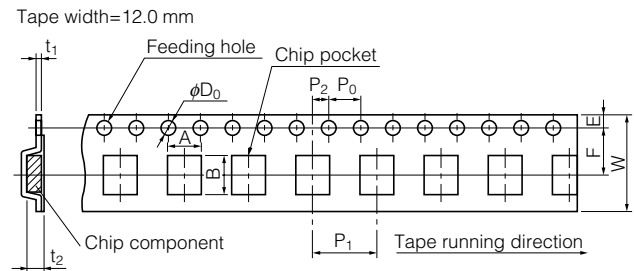
<div>No. 3</div> <div>EVQPUK EVQPUB</div> <div>(Embossed Taping)</div> <div>With J-bent terminals Without boss</div> <div></div>		<div></div> <div>PWB land pattern for reference</div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUK02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUB02K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



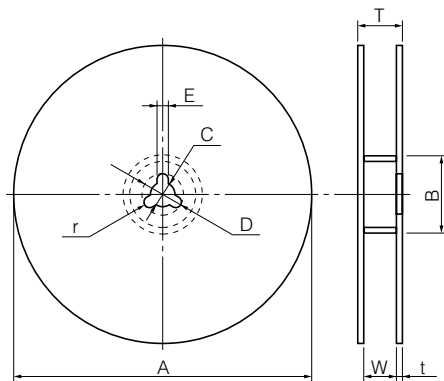
● Embossed Carrier Taping



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	