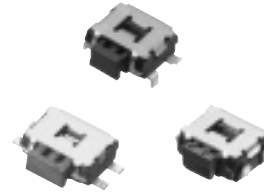


3.5 mm×2.9 mm Square Side-operation Type Light Touch Switches

Japan
China

Type: **EVQP7**



Small, low profile surface mount, horizontally operated switch designed for portable equipment

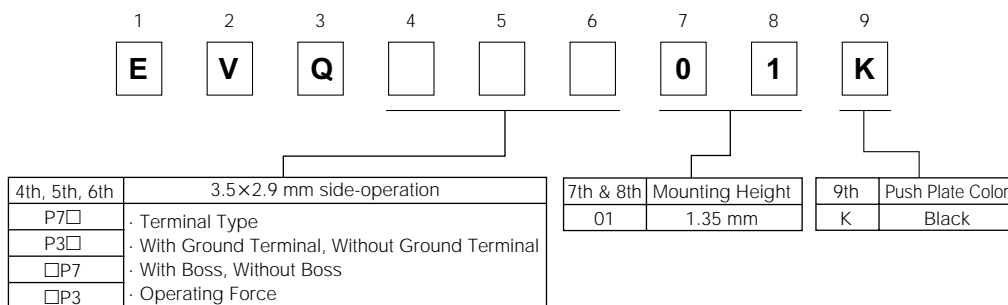
■ Features

- Small and thin surface mount, horizontally operated type
(projection area : 10.15 mm²)
(thickness : 1.35 mm)
- A wide range of terminal type : L-shape, J-bent, Straight

■ Recommended Applications

- Car navigation, Car audio


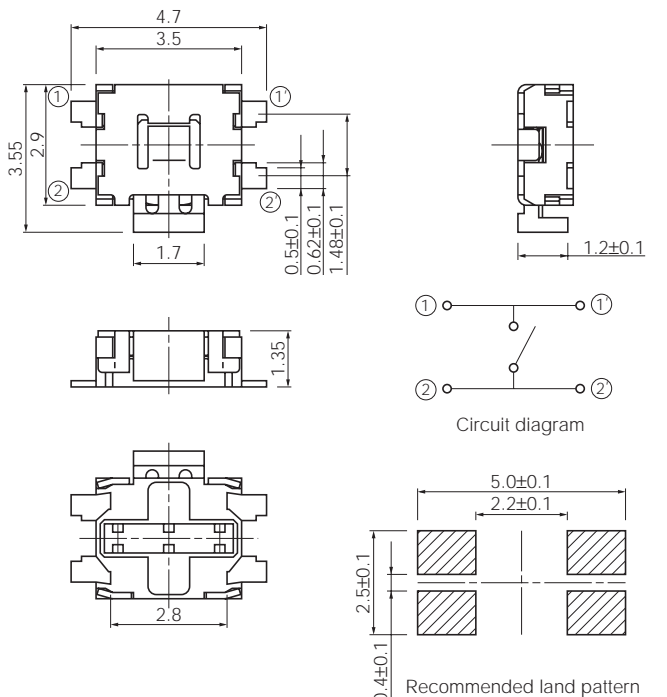

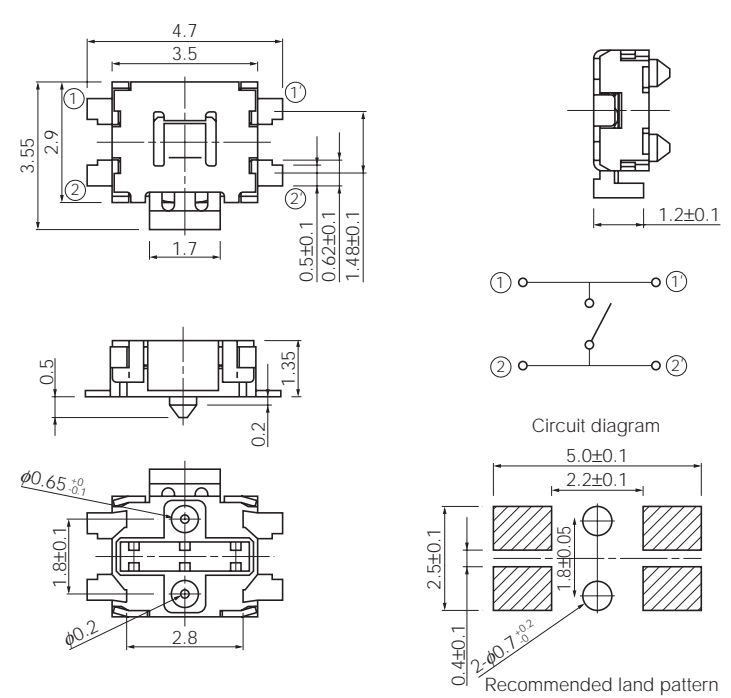
■ Explanation of Part Numbers




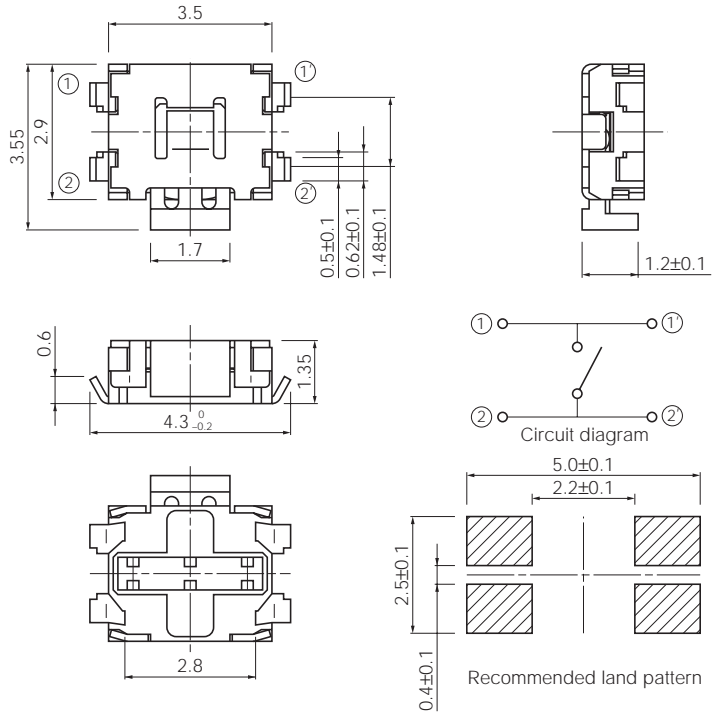

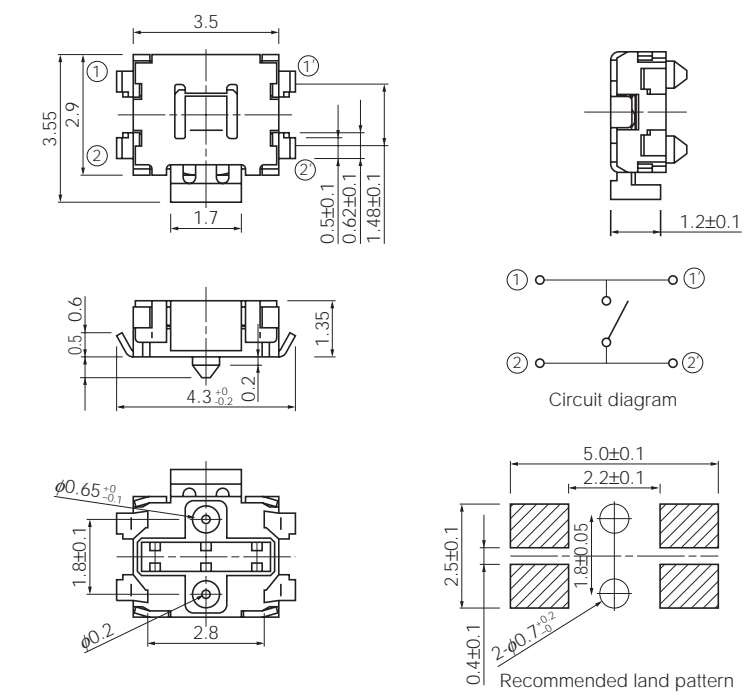
■ Specifications

Type	Snap action / Push-on type SPST	
Electrical	Rating	50 mA 12 Vdc max. (Resistive load)
	Contact Resistance	100 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac (1 minute)
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N, 2.2 N
	Push Travel	0.2 mm
	Push Strength	30 N (1 minute)
Endurance	Operating Life	100000 cycles min.
	Operating Temperature	-40 °C to +85 °C (45 % to 85 % RH)
	Storage Temperature	-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)
Minimum Quantity/Packing Unit		5000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25000 pcs.


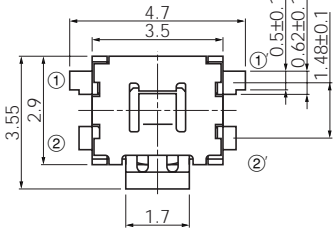
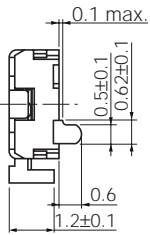
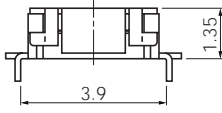
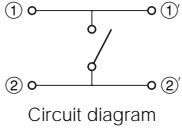
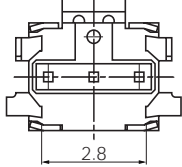
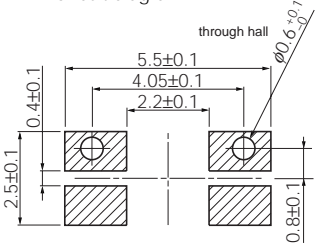
■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQP7A EVQP7J</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>EVQP7A01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7J01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 2</p> <p>EVQP7C EVQP7L</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>EVQP7C01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7L01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>

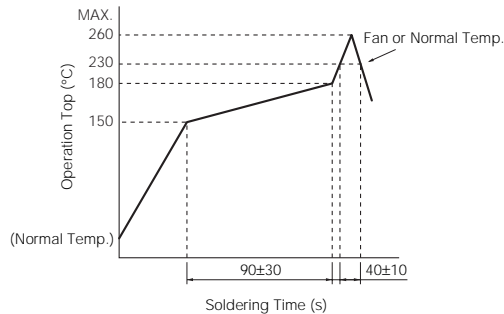
■ Dimensions in mm (not to scale)

<p>No. 3</p> <p>EVQP7B EVQP7K</p> <p>(Embossed Taping)</p> <p>With J-bent 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>EVQP7B01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7K01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>No. 4</p> <p>EVQP7D EVQP7M</p> <p>(Embossed Taping)</p> <p>With J-bent 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>EVQP7D01K</p>	<p>2.2 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>
<p>EVQP7M01K</p>	<p>1.6 N</p>	<p>1.35 mm</p>	<p>Black</p>	<p>100000 cycles</p>

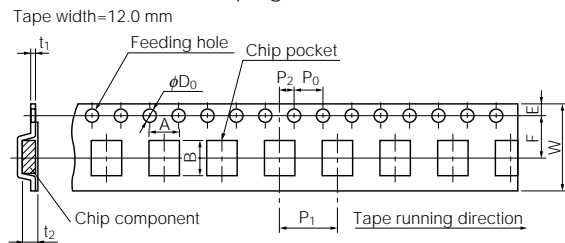
■ Dimensions in mm (not to scale)

<p>No. 5</p> <p>EVQP3 EVQ9P</p> <p>(Embossed Taping)</p> <p>With L-shape terminals Without boss</p> 				
			 <p>Circuit diagram</p>	
		 <p>Recommended land pattern</p>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP3401K	2.2 N	1.35 mm	Black	100000 cycles
EVQ9P701K	1.6 N	1.35 mm	Black	100000 cycles

■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping



● Straight terminals type

Unit: mm

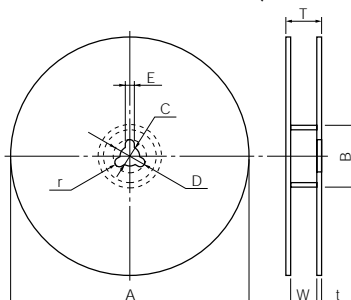
Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3 EVQP7, EVQP3	1.35	5.2±0.2	4.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1} ₋₀	0.3±0.1	1.5±0.2

● J-bent, L-shape terminals type

Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3 EVQP7, EVQP3	1.35	4.5±0.2	4.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1} ₋₀	0.3±0.1	1.5±0.2

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5
Item	W	T	t	r	
Rate (mm)	13.5±1.0	17.5±1.0	1.0 to 3.0	1.0±0.5	