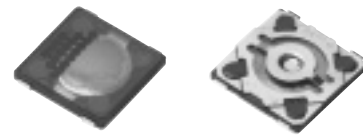


4 mm Square Thin Surface Mount Light Touch Switches

Japan
Malaysia

Type: **EVQP6**



Small, thin, long-life and dust proof SMD switch for high-density mounting in portable equipment

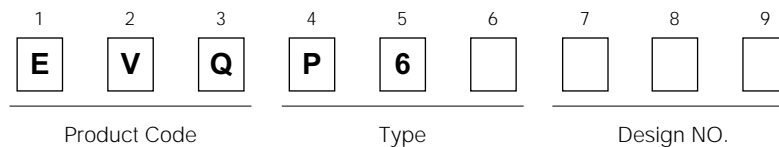
■ Features

- Compact profile : 4.1 mm×4.1 mm
Height : Without Push Plate 0.35 mm, With Push Plate 0.58 mm
- Long-life : 1000000 cycles min.
(Operating Force 1.6 N Type)
- Dust-proof structure

■ Recommended Applications

- Operational switch for portable electronic equipment (volume adjustment, mode/menu scrolling, power switches, etc.)

■ Explanation of Part Numbers



■ Product Chart

Height	Without Push Plate H=0.35 mm	With Push Plate H=0.58 mm
Packaging	Embossed	Embossed
Operating Force	Embossed	Embossed
1.6 N	EVQP6E	EVQP6S
2.4 N	EVQP6G	EVQP6U
3.5 N	EVQP6J	EVQP6W

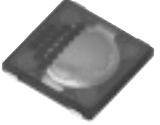
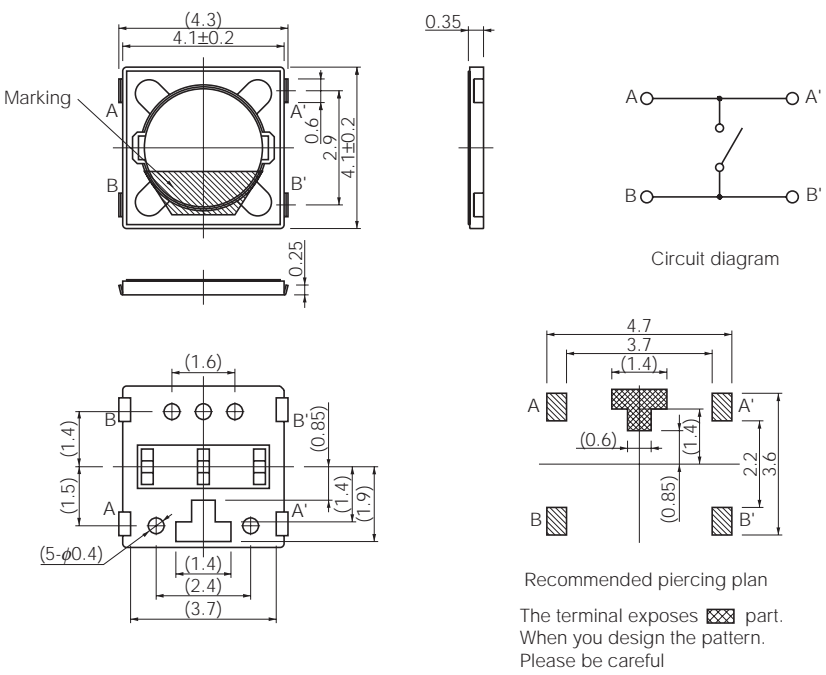

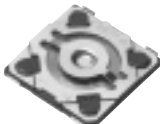
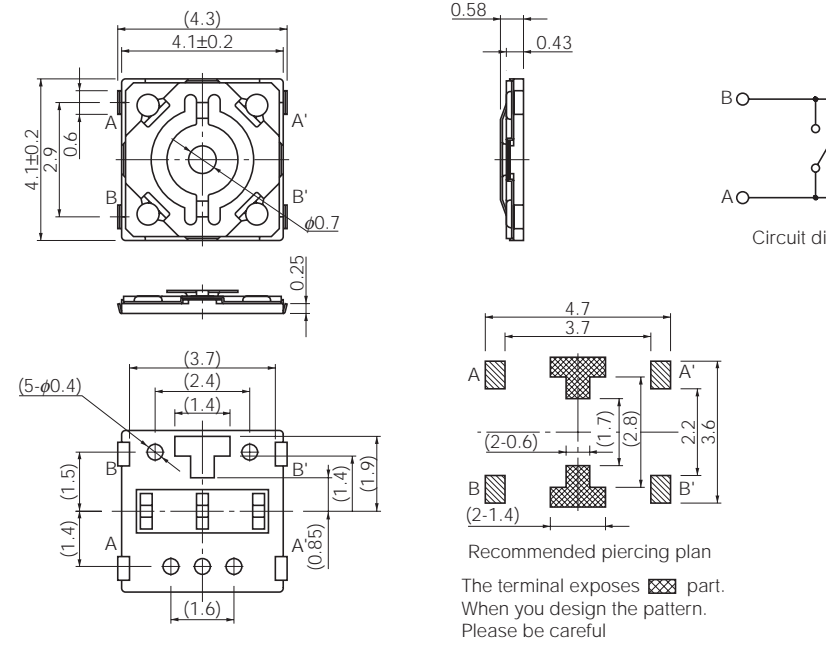

■ Specifications

Type		Snap action / Push-on type SPST	
		Without Push Plate	With Push Plate
Electrical	Rating	20 mA 15 Vdc max. (Resistive load)	
	Contact Resistance	100 mΩ max.	
	Insulation Resistance	50 MΩ min.	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	8 ms max. (ON, OFF)	
Mechanical	Operating Force	1.0 N, 1.3 N, 1.6 N, 2.4 N, 3.5 N	
	Travel	0.2 mm	
Endurance	Operating Life	1.0 N, 1.3 N, 1.6 N : 1000000 cycles min. 2.4 N : 500000 cycles min. 3.5 N : 200000 cycles min.	
	Operating Temperature	-20 °C to +70 °C (45 % to 85 % RH)	
	Storage Temperature	-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)	
Minimum Quantity/Packing Unit		10000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton		50000 pcs.	

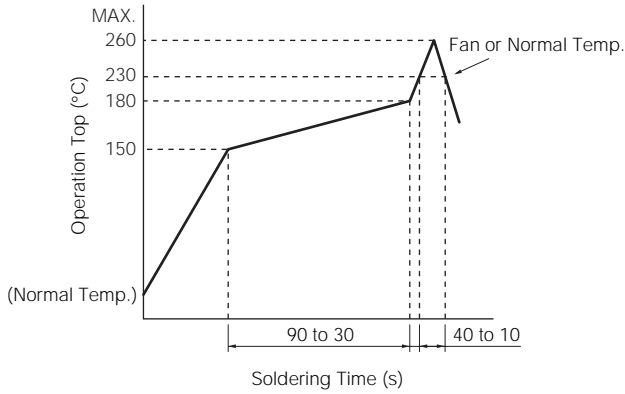
Note: Non washable

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.

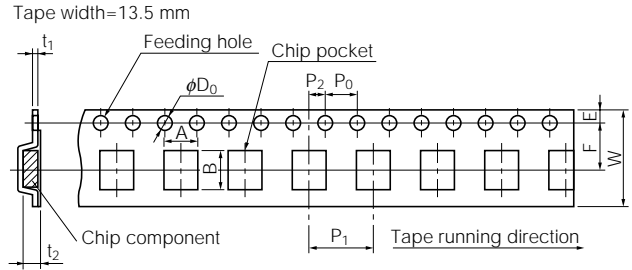
■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQP6E EVQP6G EVQP6J</p> <p>(Embossed Taping)</p> <p>Surface mount For reflow soldering Without push plate</p> 	 <p>Circuit diagram</p> <p>Recommended piercing plan</p> <p>The terminal exposes  part. When you design the pattern. Please be careful</p>		
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Operating Life</p>
<p>EVQP6EB35</p>	<p>1.6 N</p>	<p>0.35 mm</p>	<p>1000000 cycles</p>
<p>EVQP6GB35</p>	<p>2.4 N</p>	<p>0.35 mm</p>	<p>500000 cycles</p>
<p>EVQP6JB35</p>	<p>3.5 N</p>	<p>0.35 mm</p>	<p>200000 cycles</p>
<p>No. 2</p> <p>EVQP6S EVQP6U EVQP6W</p> <p>(Embossed Taping)</p> <p>Surface mount For reflow soldering With push plate</p> 	 <p>Circuit diagram</p> <p>Recommended piercing plan</p> <p>The terminal exposes  part. When you design the pattern. Please be careful</p>		
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Operating Life</p>
<p>EVQP6SB55</p>	<p>1.6 N</p>	<p>0.58 mm</p>	<p>1000000 cycles</p>
<p>EVQP6UB55</p>	<p>2.4 N</p>	<p>0.58 mm</p>	<p>500000 cycles</p>
<p>EVQP6WB55</p>	<p>3.5 N</p>	<p>0.58 mm</p>	<p>200000 cycles</p>

Recommended Reflow Soldering Conditions



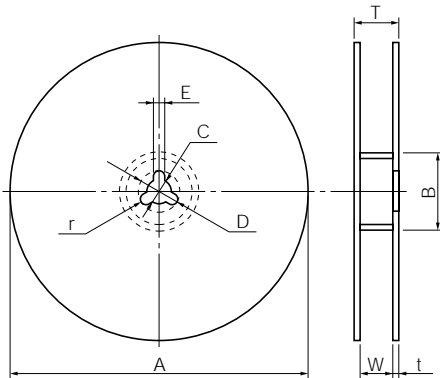
Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP6	0.35/0.58	4.0±0.2	5.0±0.2	12.0 ^{+0.3} _{-0.1}	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	0.30±0.05	0.5/0.7 ^{+0.2} _{-0.1}

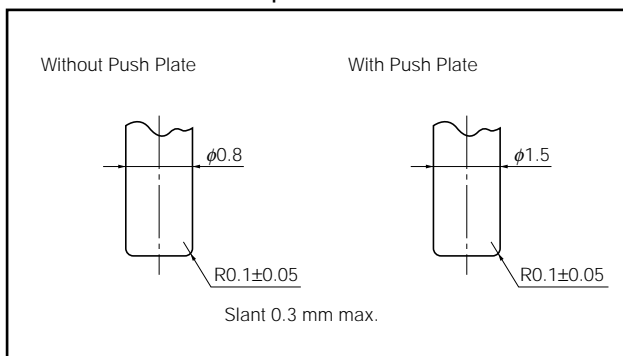
Standard Reel Dimensions in mm (not to scale)



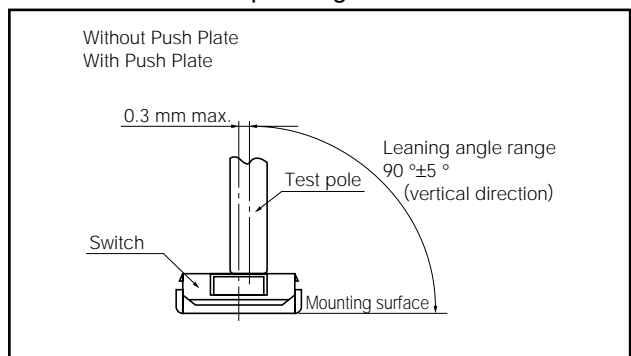
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5

Item	W	T	t	r
Rate (mm)	13.5±1.5	17.5±1.0	1.0 to 3.0	1.0±0.5

Recommended Shape of Test Pole



Recommended Operating Conditions



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