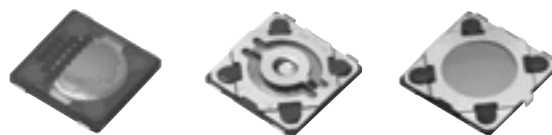


4 mm Square SMD Light Touch Switches

Type: **EVQP6/EVQ6P6/EVQ7P6/EVQ9P6**



■ Features

- External dimensions : 4.1 mm×4.1 mm
Height :Without Push Plate 0.35 mm, With Push Plate 0.58 mm
:Without Push Plate-With Ground Terminal 0.43 mm
- Long-life :1000000 cycles min.
(Operating Force 1.6 N Type)
- Dust-proof structure

■ Recommended Applications

- Operating switches for portable electronic equipment
(Mobile phones, Camcorders, Portable audio players, etc.).

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9
E	V	Q						
Product Code					Height			
			4th, 5th, 6th		Type			
			P6□		· With Push Plate, Without Push Plate · Without Grounf Terminal			
			6P6 7P6 9P6		· Without Push Plate · With Grounf Terminal			

■ Product Chart

Height	Without Push Plate H=0.35 mm	With Push Plate H=0.58 mm	Without Push Plate With Ground Terminal H=0.43 mm
Packaging	Embossed	Embossed	Embossed
Operating Force			
1.0 N	—	—	EVQ7P6
1.6 N	EVQP6D	EVQP6L	EVQ6P6
2.4 N	EVQP6P	EVQP6Y	EVQ9P6

■ Specifications

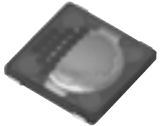
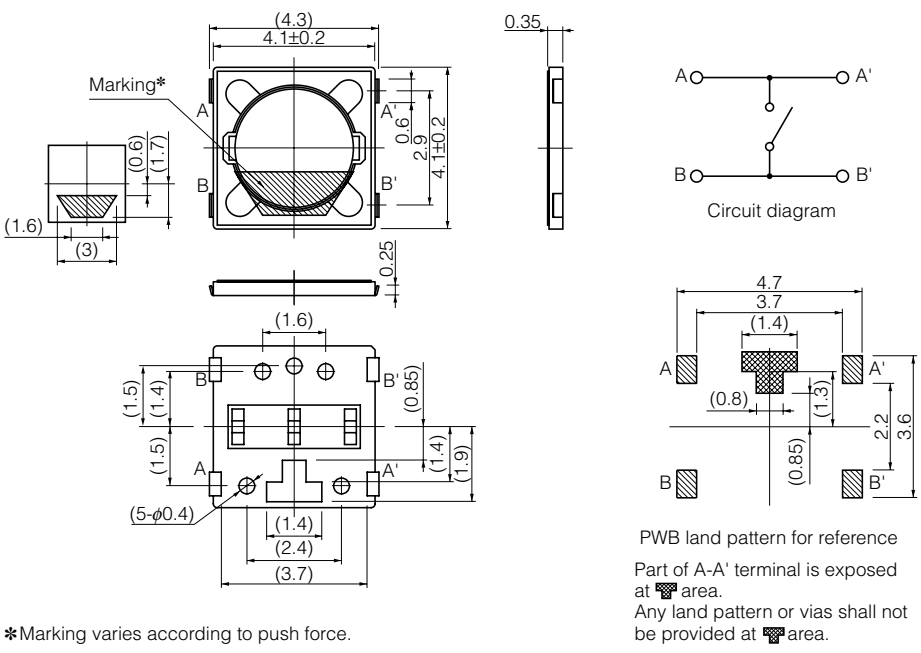
Type		Snap action / Push-on type SPST	
		Without Push Plate	With Push Plate
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	500 m Ω max.	
	Insulation Resistance	50 M Ω min.	
	Dielectric Withstanding Voltage	100 Vac for 1 minute	
	Bouncing	3 ms max. (ON) 10 ms max. (OFF)	
Mechanical	Operating Force	1.0 N, 1.6 N, 2.4 N	
	Travel	0.2 mm (EVQ7P6 : 0.15 mm)	
Endurance	Operating Life	1.0 N, 1.6 N : 1000000 cycles min. 2.4 N : 500000 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		10000 pcs. Embossed Taping (Reel Pack)	
Quantity/Cartron		50000 pcs.	

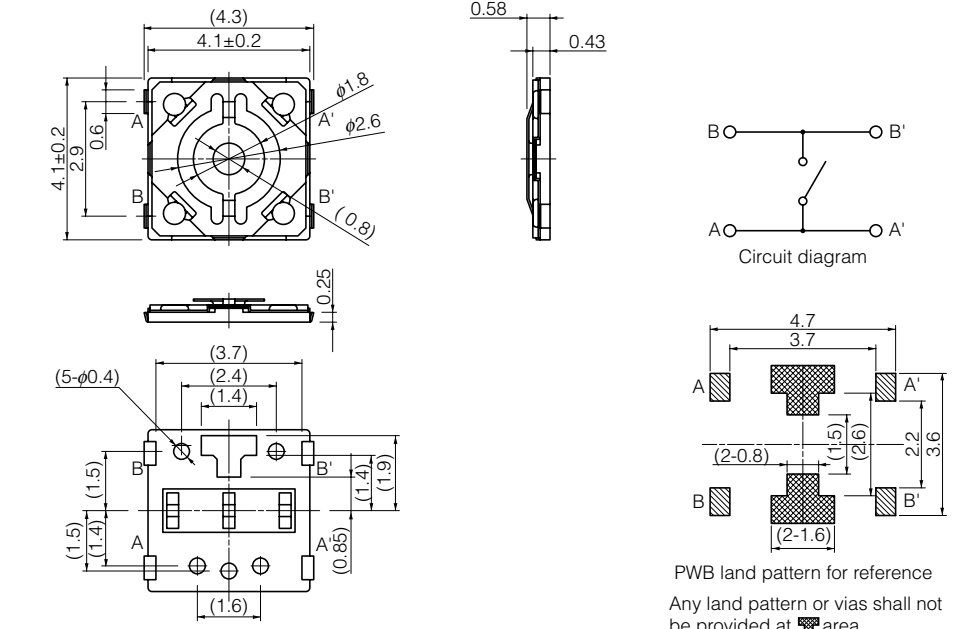
Note: Non washable

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.

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■ Dimensions in mm (not to scale)

No. 1 EVQP6D EVQP6P (Embossed Taping) Surface mount For reflow soldering Without push plate 	 *Marking varies according to push force.		
Part Numbers	Operating Force	Height	Operating Life
EVQP6DB35	1.6 N	0.35 mm	1000000 cycles
EVQP6PB35	2.4 N	0.35 mm	500000 cycles

No. 2 EVQP6L EVQP6Y (Embossed Taping) Surface mount For reflow soldering With push plate 	 PWB land pattern for reference Any land pattern or vias shall not be provided at  area.		
Part Numbers	Operating Force	Height	Operating Life
EVQP6LB55	1.6 N	0.58 mm	1000000 cycles
EVQP6YB55	2.4 N	0.58 mm	500000 cycles

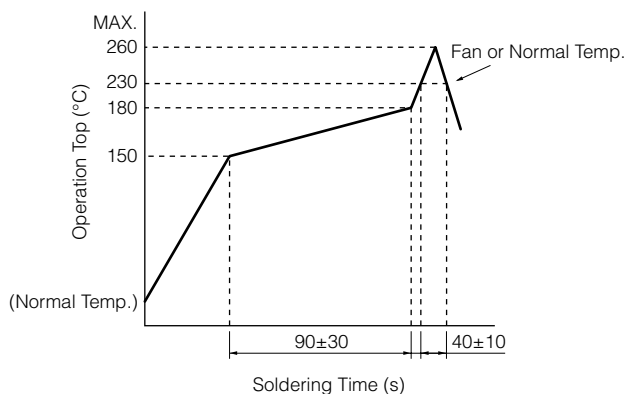
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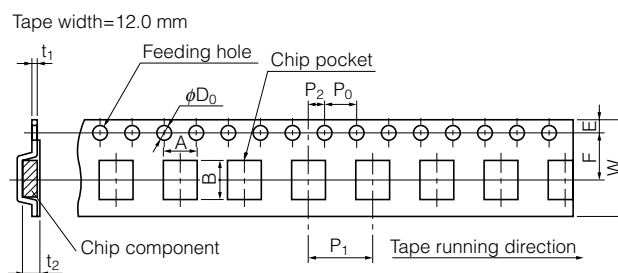
■ Dimensions in mm (not to scale)

No. 3			
EVQ7P6 EVQ6P6 EVQ9P6 (Embossed Taping) Surface mount For reflow soldering Without push plate With Ground Terminal	Circuit diagram PWB land pattern for reference Part of B-B' terminal is exposed at area. Any land pattern or vias shall not be provided at area.		
Part Numbers	Operating Force	Height	Operating Life
EVQ7P6B40	1.0 N	0.43 mm	1000000 cycles
EVQ6P6B40	1.6 N	0.43 mm	1000000 cycles
EVQ9P6B40	2.4 N	0.43 mm	500000 cycles

■ Recommended Reflow Soldering Conditions



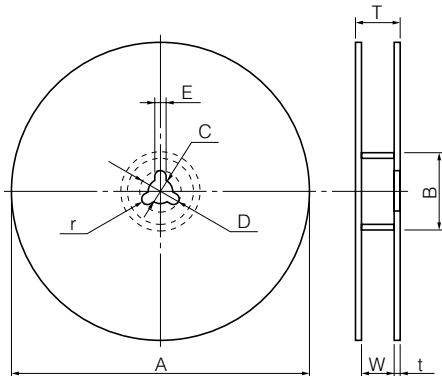
● Embossed Carrier Taping



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}
EVQ6P6	0.43											
EVQ7P6												
EVQ9P6												

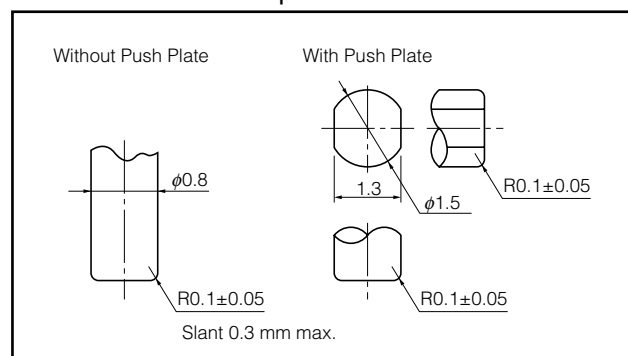
● Standard Reel Dimensions in mm (not to scale)



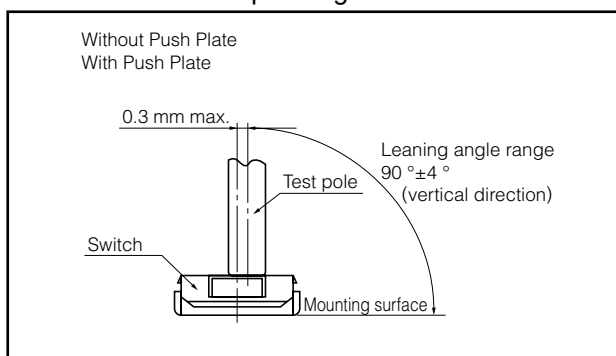
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5

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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