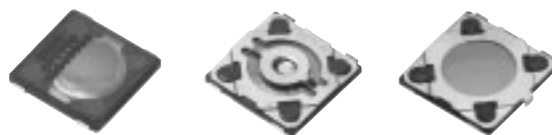


4 mm Square SMD Light Touch Switches

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		
			Type					
			4th, 5th, 6th 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

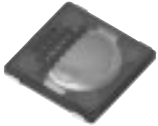
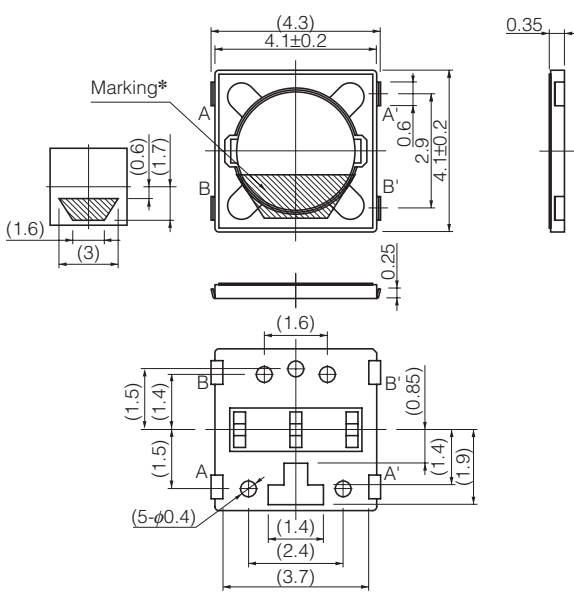
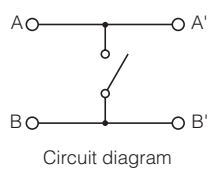
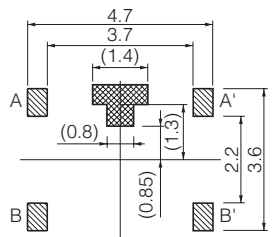
Type		Snap action / Push-on type SPST	
		Without Push Plate	With Push Plate
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	500 m Ω max.	
	Insulation Resistance	50 M Ω min.	
	Dielectric Withstanding Voltage	100 Vac for 1 minute	
	Bouncing	3 ms max. (ON) 10 ms max. (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.	

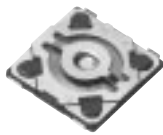
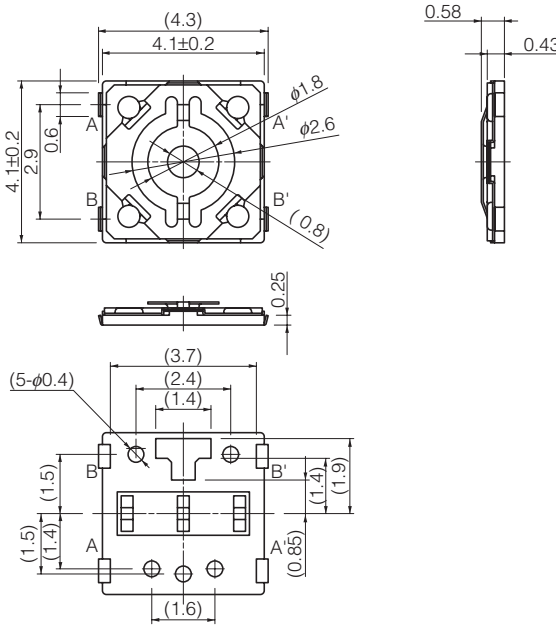
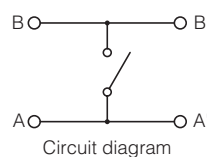
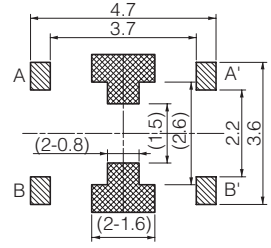
Note: Non washable

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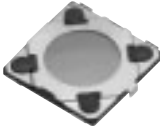
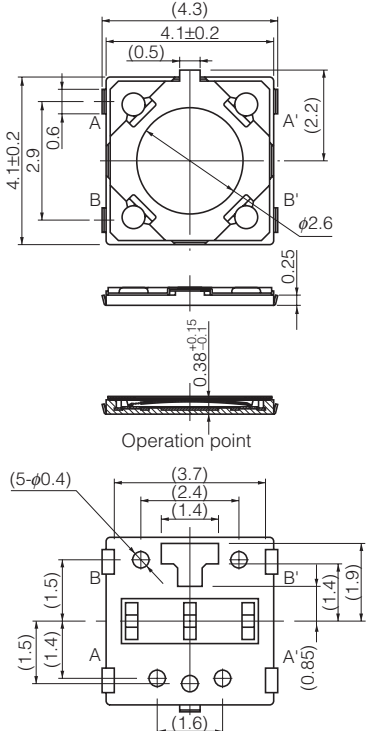
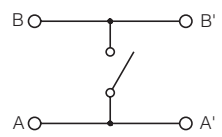
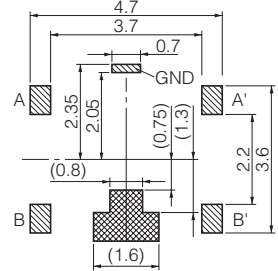
■ Dimensions in mm (not to scale)

No. 1 EVQP6D EVQP6P (Embossed Taping) Surface mount For reflow soldering Without push plate 				 Marking*  Circuit diagram  PWB land pattern for reference Part of A-A' terminal is exposed at  area. Any land pattern or vias shall not be provided at  area. *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	

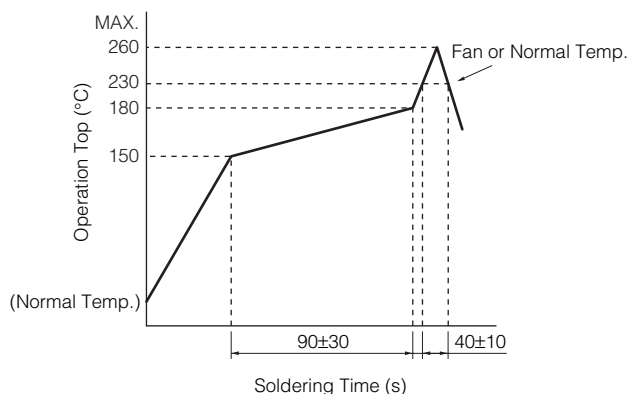
No. 2 EVQP6L EVQP6Y (Embossed Taping) Surface mount For reflow soldering With push plate 				  Circuit diagram  PWB land pattern for reference Part of A-A' terminal is exposed at  area. Any land pattern or vias shall not be provided at  area.			
Part Numbers		Operating Force		Height		Operating Life	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

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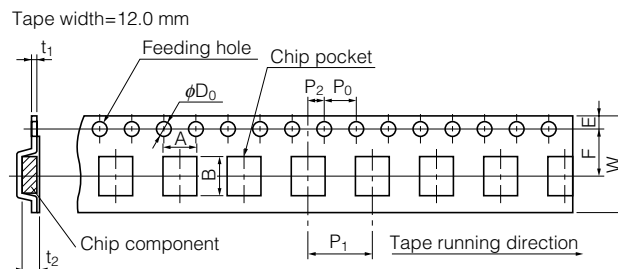
■ Dimensions in mm (not to scale)

No. 3 EVQ7P6 EVQ6P6 EVQ9P6 (Embossed Taping) Surface mount For reflow soldering Without push plate With Ground Terminal 	 Operation point (5-φ0.4) (4.3) 4.1±0.2 (0.5) 4.1±0.2 0.6 2.9 A B A' B' φ2.6 0.25 0.38±0.15 0.43 Circuit diagram  PWB land pattern for reference  Part of A-A' 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



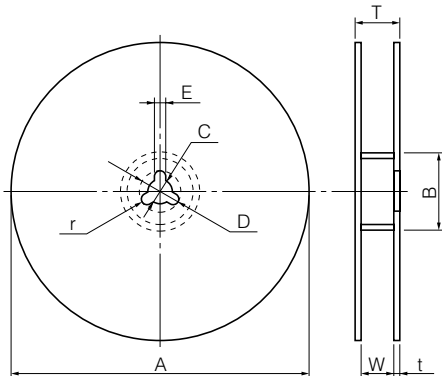
● Embossed Carrier Taping



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												

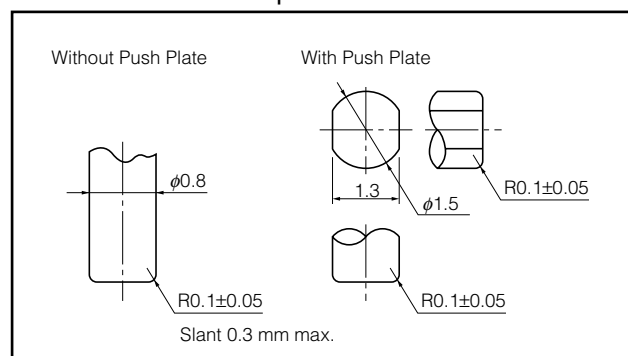
● Standard Reel Dimensions in mm (not to scale)



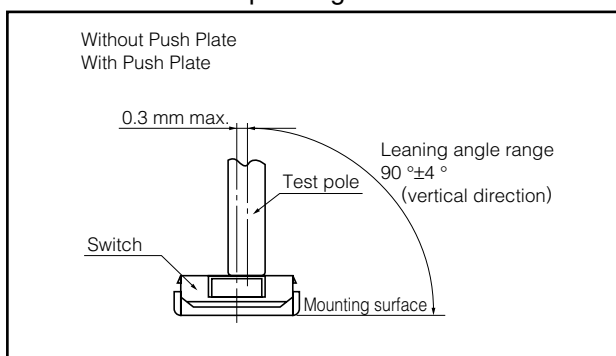
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5

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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