

3.5 mm×2.9 mm Side-operational SMD

Light Touch Switches

Type: **EVQP7/EVQP3/EVQ9P7**



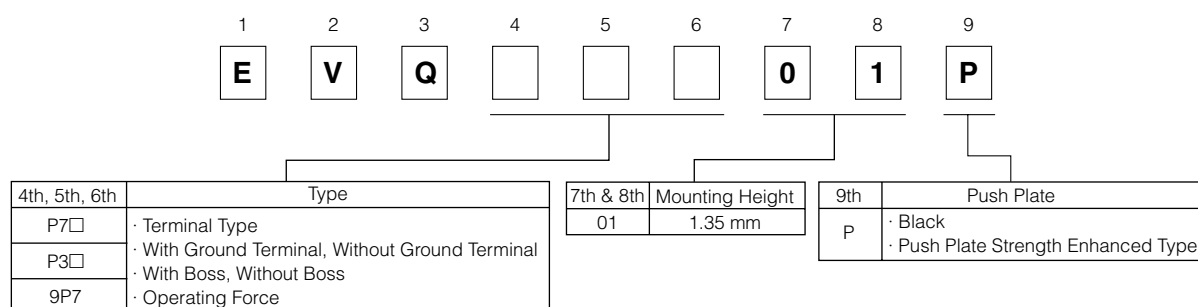
■ Features

- External dimensions : 3.5 mm×2.9 mm, Height 1.35 mm
- A wide range of terminal type : L-shape, J-bent, Straight
- High mount ability
- Push plate strength enhanced type

■ Recommended Applications

- Operation switches for portable electronic equipment (Mobile phones, Digital still cameras, Camcorders, Portable audio players, etc.)

■ Explanation of Part Numbers

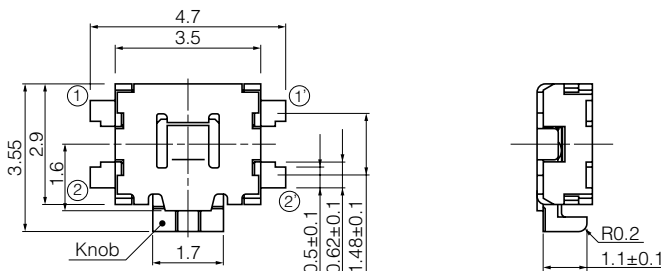
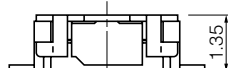
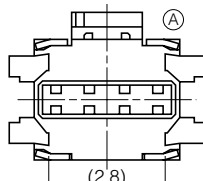
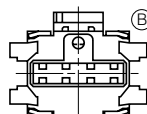
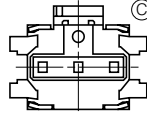
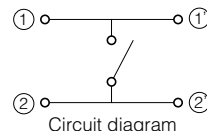
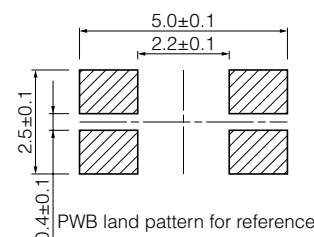


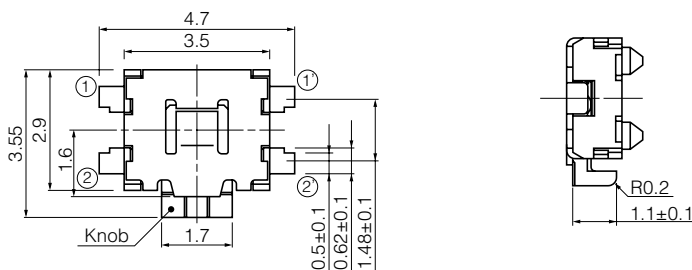
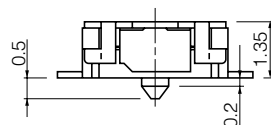
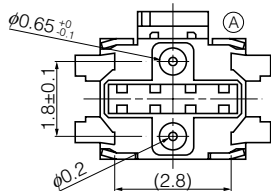
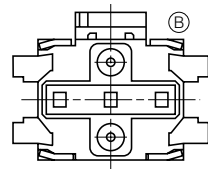
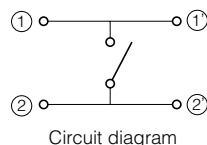
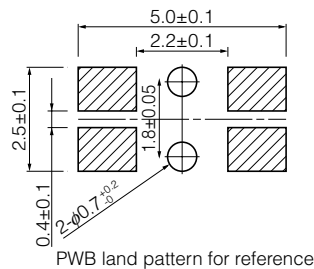
■ Specifications

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 (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		-20 °C to +70 °C
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/Cartron		25000 pcs.

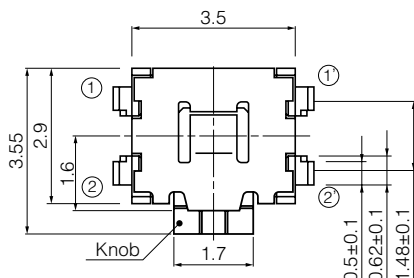
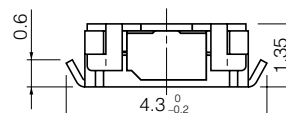
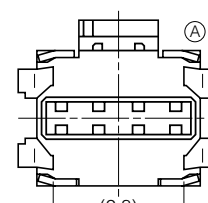
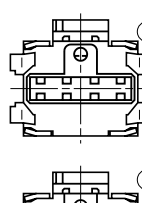
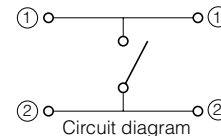
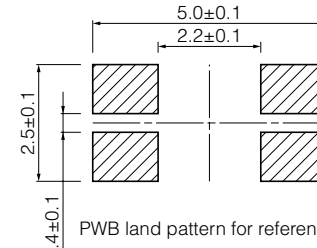
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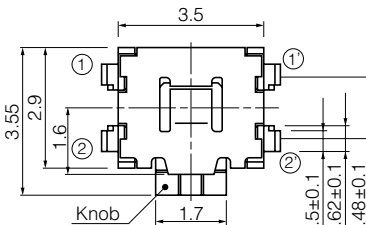
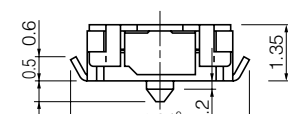
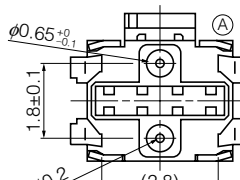
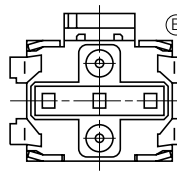
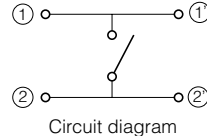
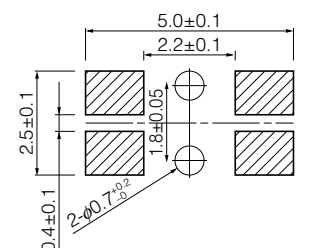
■ Dimensions in mm (not to scale)

No. 1 EVQP7A EVQP7J (Embossed Taping) With straight terminals Without boss 		     Either(A)or(B)or(C)type will be used because of variety of molding dies.  Circuit diagram  PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7A01P		2.2 N	1.35 mm	Black	100000 cycles
EVQP7J01P		1.6 N	1.35 mm	Black	100000 cycles

No. 2 EVQP7C EVQP7L (Embossed Taping) With straight terminals With boss 		    Either(A)or(B)type will be used because of variety of molding dies.  Circuit diagram  PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7C01P		2.2 N	1.35 mm	Black	100000 cycles
EVQP7L01P		1.6 N	1.35 mm	Black	100000 cycles

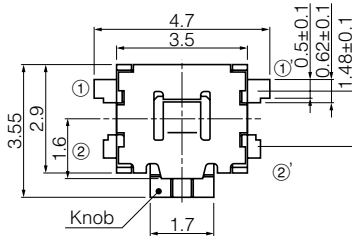
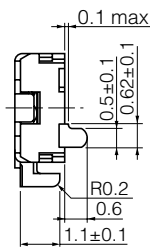
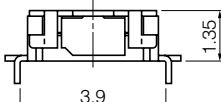
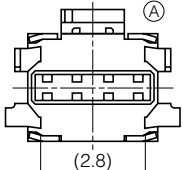
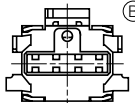
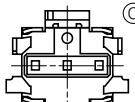
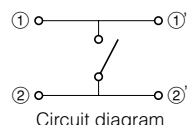
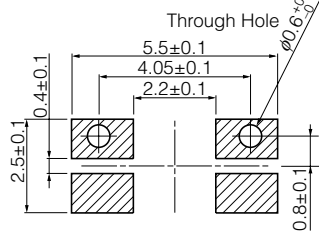
■ Dimensions in mm (not to scale)

No. 3 EVQP7B EVQP7K (Embossed Taping) With J-bent terminals Without boss 		    Either(A)or(B)or(C)type will be used because of variety of molding dies.   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7B01P		2.2 N	1.35 mm	Black	100000 cycles
EVQP7K01P		1.6 N	1.35 mm	Black	100000 cycles

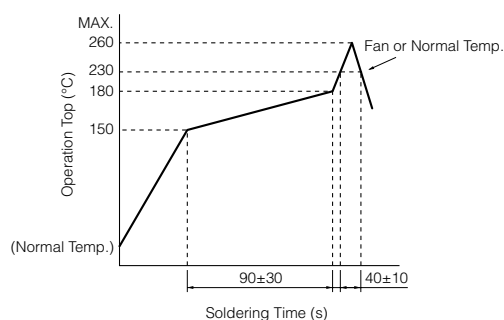
No. 4 EVQP7D EVQP7M (Embossed Taping) With J-bent terminals With boss 		    Either(A)or(B)type will be used because of variety of molding dies.   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP7D01P		2.2 N	1.35 mm	Black	100000 cycles
EVQP7M01P		1.6 N	1.35 mm	Black	100000 cycles

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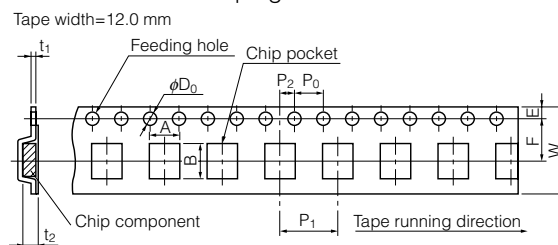
■ Dimensions in mm (not to scale)

No. 5				
EVQP3 EVQ9P				
(Embossed Taping)				
With L-shape terminals				
Without boss				
				
				
				
				
				
	Either(A)or(B)or(C) type will be used because of variety of molding dies.			
				
				
				
	Through Hole			
				
	PWB land pattern for reference			
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP3401P	2.2 N	1.35 mm	Black	100000 cycles
EVQ9P701P	1.6 N	1.35 mm	Black	100000 cycles

■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping



● Straight terminals, L-shape terminals type

Unit: mm

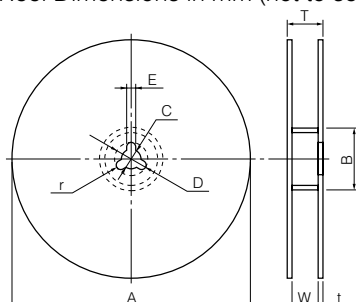
Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3 EVQ9P7	1.35	5.2±0.2	4.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1} ₋₀	0.3±0.1	1.5±0.2

● J-bent 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	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±1.0	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	