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

1	2	3	4	5	6	7	8	9
E	V	Q	P/9	7/3/P				P
Product Code			Type・Operating Force			Product Height		

■ Specifications

Type		Snap action / Push-on type SPST
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)
	Contact Resistance	500 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 V DC)
	Dielectric Withstanding Voltage	250 V AC for 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	100,000 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		5,000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25,000 pcs.

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■ Dimensions in mm (not to scale)

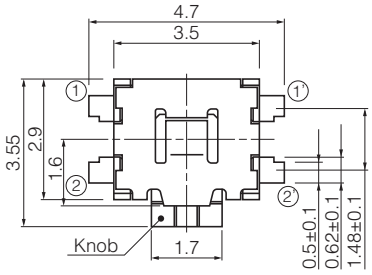
No. 1

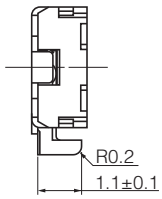
EVQP7A
EVQP7J

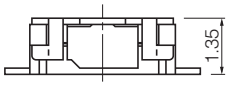
(Embossed Taping)

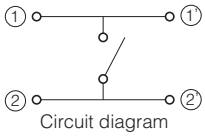
With straight terminals
Without boss

General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.

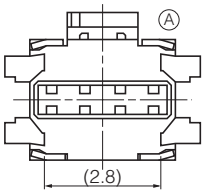


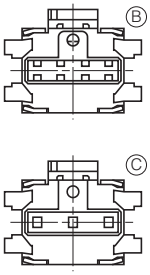




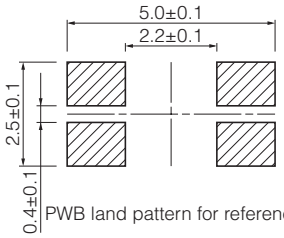


Circuit diagram





Either Ⓐ or Ⓑ or Ⓒ type will be used because of variwty of molding dies.



PWB land pattern for reference

Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7A01P	2.2 N	1.35 mm	Black	100,000 cycles
EVQP7J01P	1.6 N	1.35 mm	Black	100,000 cycles

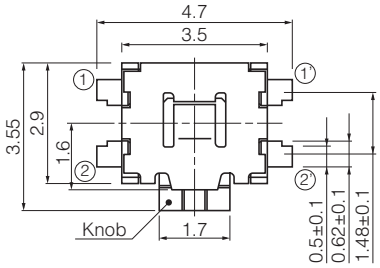
No. 2

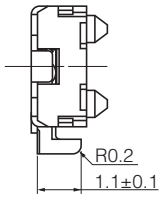
EVQP7C
EVQP7L

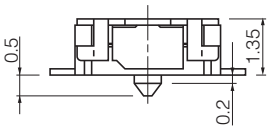
(Embossed Taping)

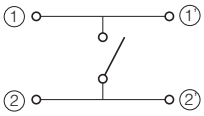
With straight terminals
With boss

General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.

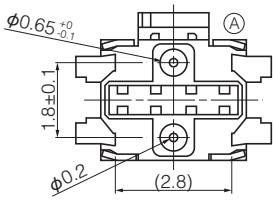


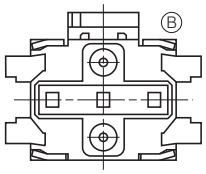




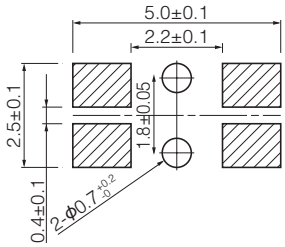


Circuit diagram





Either Ⓐ or Ⓑ type will be used because of variwty of molding dies.



PWB land pattern for reference

Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7C01P	2.2 N	1.35 mm	Black	100,000 cycles
EVQP7L01P	1.6 N	1.35 mm	Black	100,000 cycles

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■ Dimensions in mm (not to scale)

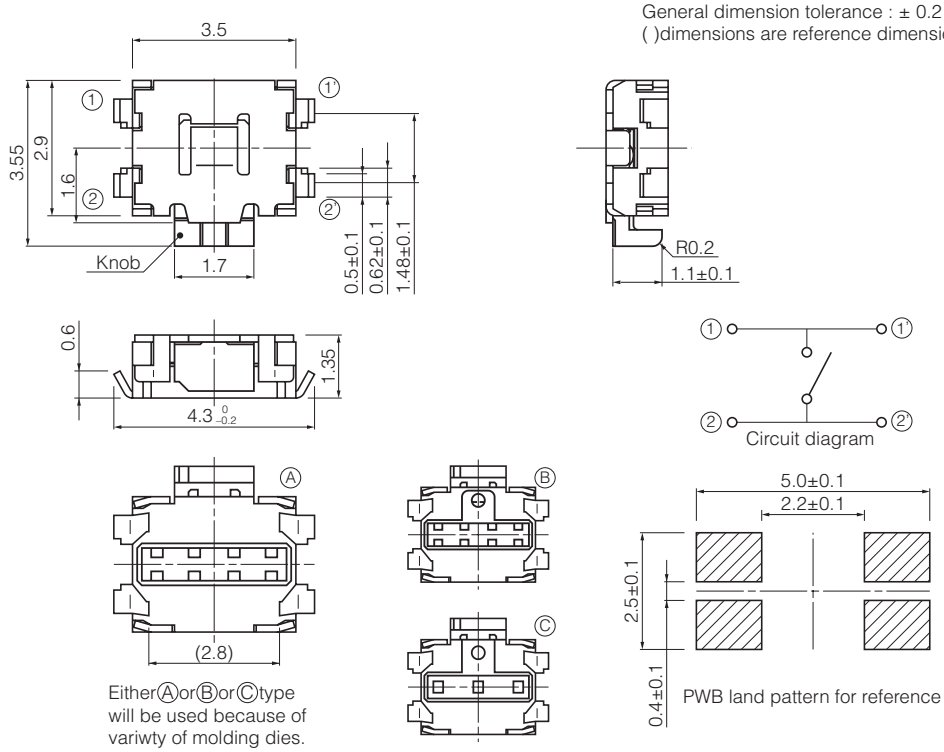
No. 3

EVQP7B
EVQP7K

(Embossed Taping)

With J-bent terminals
Without boss

General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.



Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7B01P	2.2 N	1.35 mm	Black	100,000 cycles
EVQP7K01P	1.6 N	1.35 mm	Black	100,000 cycles

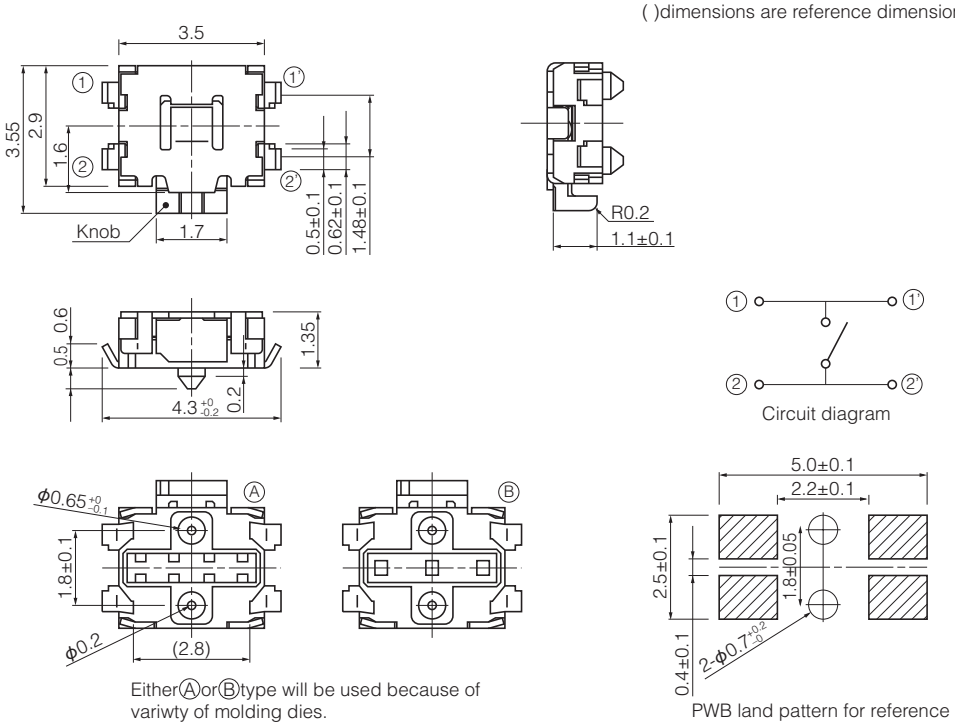
No. 4

EVQP7D
EVQP7M

(Embossed Taping)

With J-bent terminals
With boss

General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.



Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP7D01P	2.2 N	1.35 mm	Black	100,000 cycles
EVQP7M01P	1.6 N	1.35 mm	Black	100,000 cycles

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■ Dimensions in mm (not to scale)

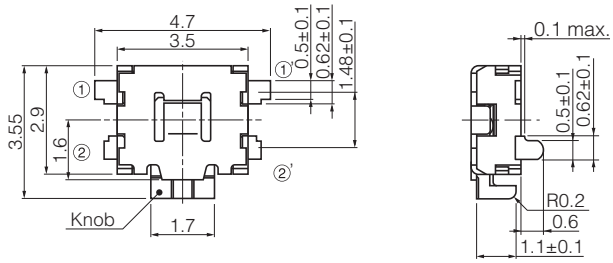
No. 5

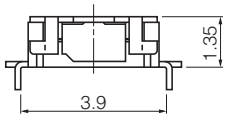
EVQP3
EVQ9P

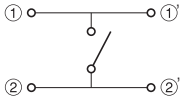
(Embossed Taping)

With L-shape terminals
Without boss

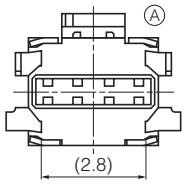
General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.

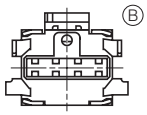


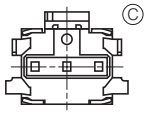




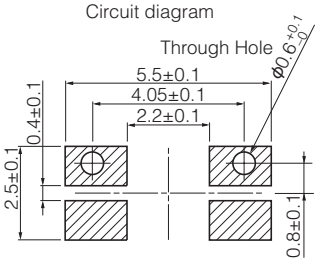
Circuit diagram







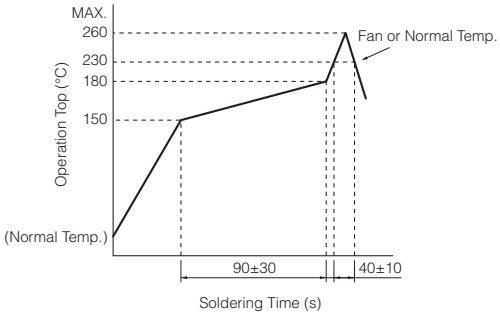
Either Ⓐ or Ⓑ or Ⓒ type will be used because of variwty of molding dies.



PWB land pattern for reference

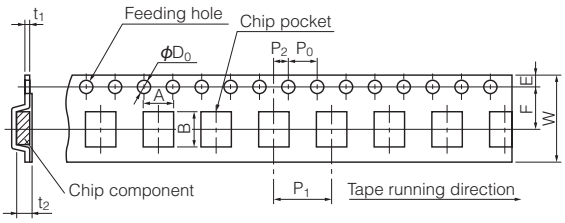
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP3401P	2.2 N	1.35 mm	Black	100,000 cycles
EVQ9P701P	1.6 N	1.35 mm	Black	100,000 cycles

■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping

Tape width=12.0 mm



Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
Joint of carrier tape : One joint per one reel may exist.

● 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

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