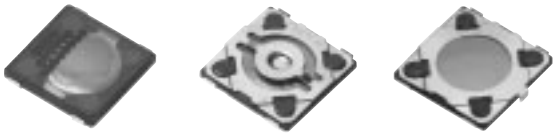
4 mm Square SMD Light Touch Switches

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 / Operating Force	Embossed	Embossed	Embossed
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 µA 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	500 mΩ max.	
	Insulation Resistance	50 MΩ 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/Carton		50000 pcs.	

Note: Non washable

00 Oct. 2012

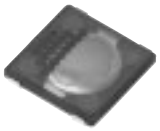
■ Dimensions in mm (not to scale)

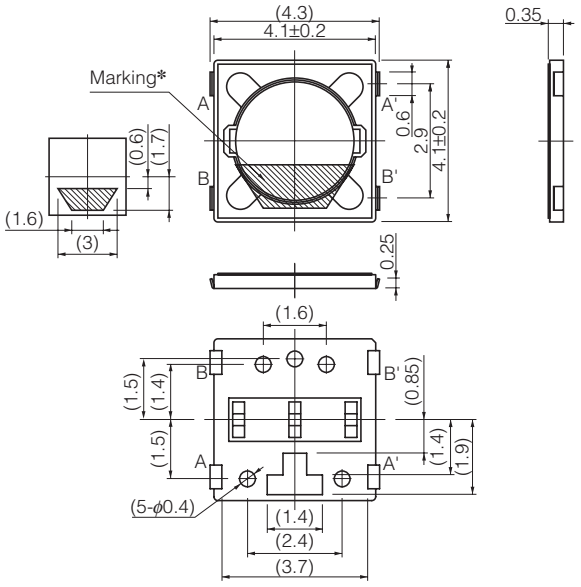
No. 1

EVQP6D
EVQP6P

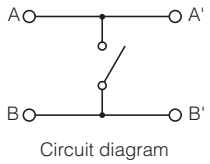
(Embossed Taping)

Surface mount
For reflow soldering
Without push plate

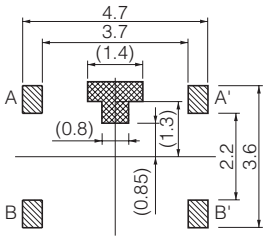




*Marking varies according to push force.



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.

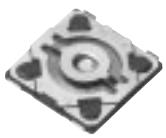
Part Numbers	Operating Force	Height	Operating Life
EVQP6DB35	1.6 N	0.35 mm	1000000 cycles
EVQP6PB35	2.4 N	0.35 mm	500000 cycles

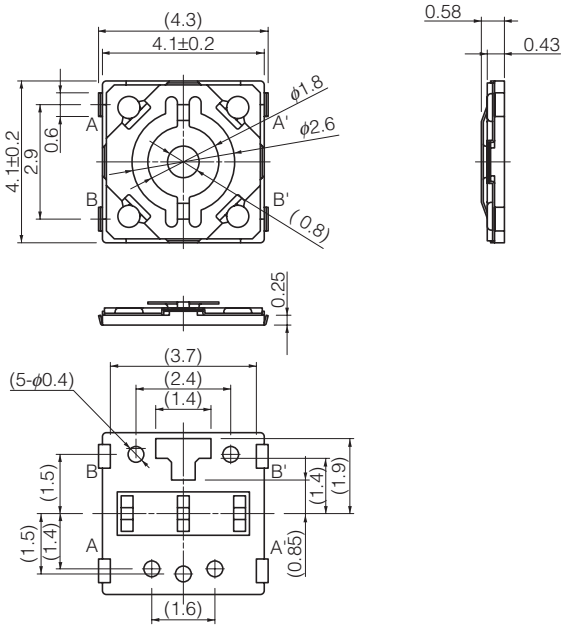
No. 2

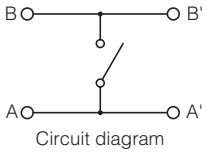
EVQP6L
EVQP6Y

(Embossed Taping)

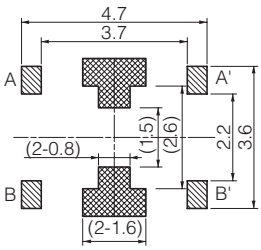
Surface mount
For reflow soldering
With push plate







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

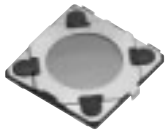
■ Dimensions in mm (not to scale)

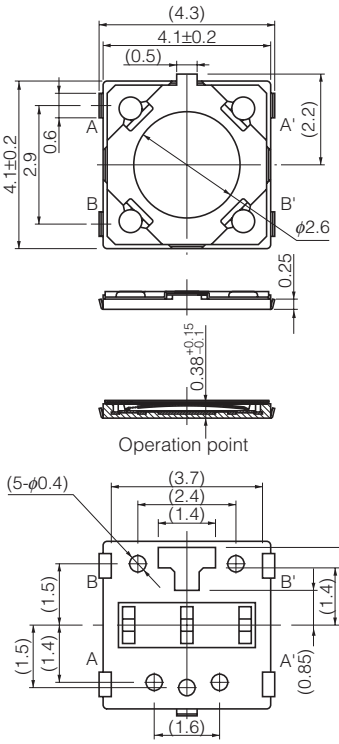
No. 3

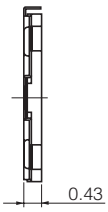
EVQ7P6
EVQ6P6
EVQ9P6

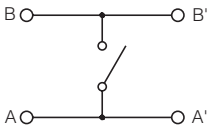
(Embossed Taping)

Surface mount
For reflow soldering
Without push plate
With Ground Terminal

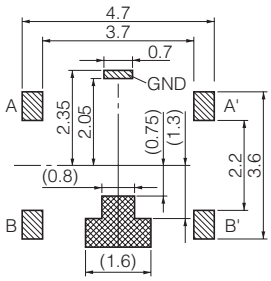








Circuit diagram

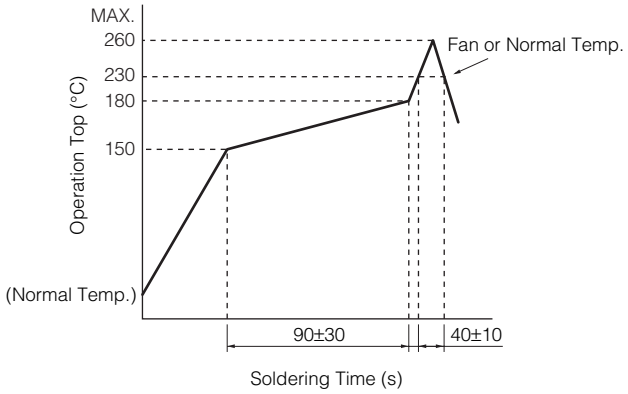


PWB land pattern for reference

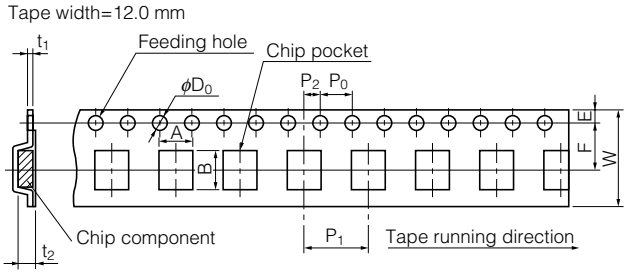
Part of A-A' terminal is exposed at ▩ area.
Any land pattern or vias shall not be provided at ▩ area.

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



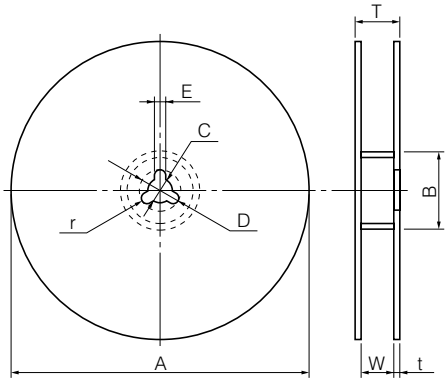
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P1	P2	P0	D0 Dia.	t1	t2
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 EVQ7P6 EVQ9P6	0.43											

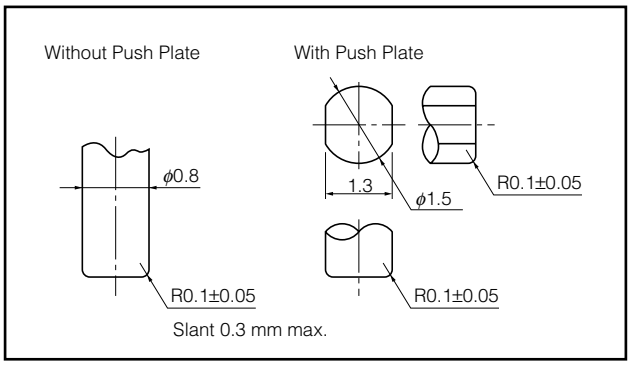
● Standard Reel Dimensions in mm (not to scale)



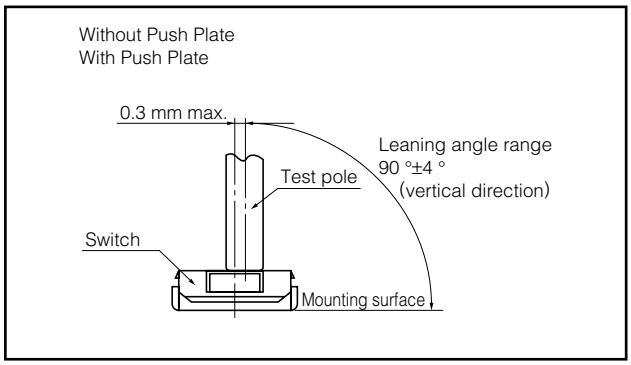
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5

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



Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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