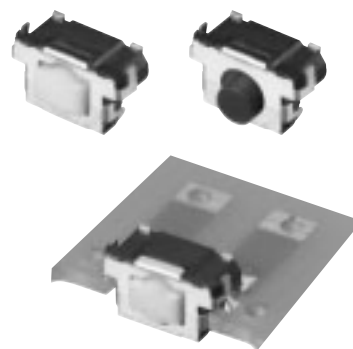


6.2 mm×2.5 mm Side-operational Edge Mount /

SMD Light Touch Switches

Type: **EVQP4/EVQP8**



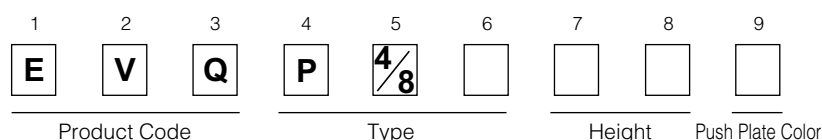
■ Features

- External dimensions : 6.2 mm×2.55 mm (Excluding the push plate), Height 3.5 mm (EVQP4 Type : Printed circuit board being as low as 1.35 mm)
- Side-operational middle stroke type (0.7 mm) with a high operating force (5.0 N)
- Improved soldering strength in the operating direction when mounted on PC board edge

■ Recommended Applications

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

■ Explanation of Part Numbers



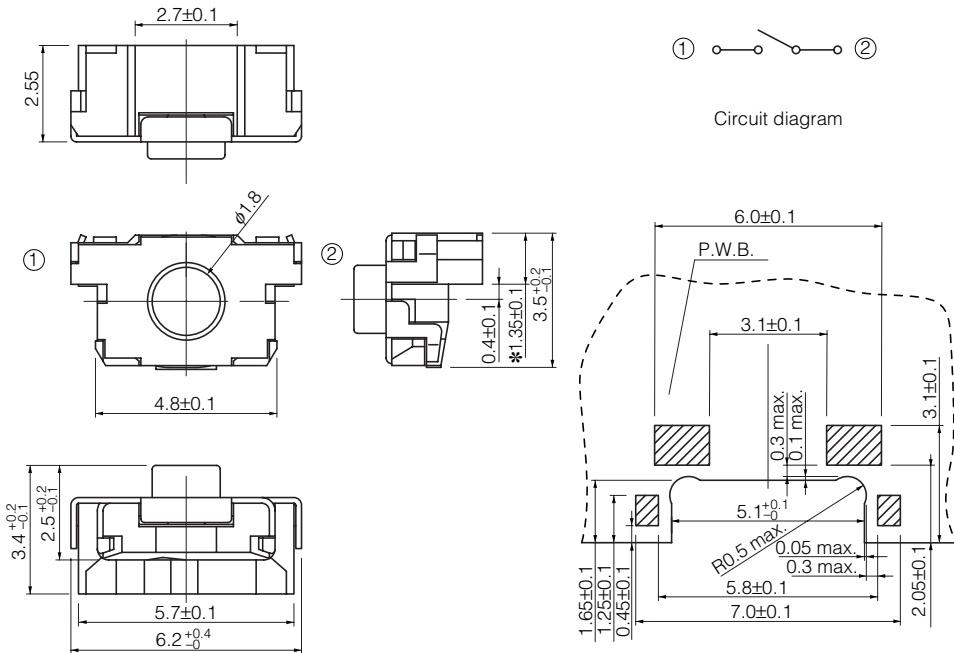
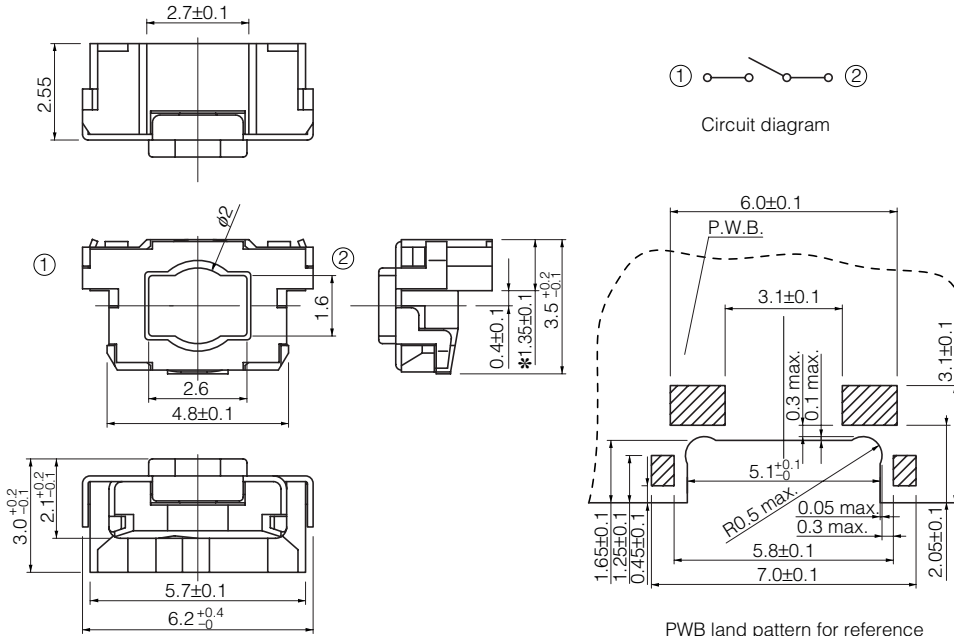
■ Specifications

Travel Type		Middle Push Travel	Short Push Travel
Type		Snap action / Push-on type SPST	
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	100 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	2.5 N, 3.5 N, 5.0 N	1.0 N, 1.6 N, 2.4 N, 3.5 N
	Travel	0.70 mm	0.25 mm
	Push Strength	50 N (1 minute)	
Endurance	Operating Life	2.5 N:1000000 cycles min. 3.5 N: 500000 cycles min. 5.0 N: 200000 cycles min.	1.0 N, 1.6 N: 1000000 cycles min. 2.4 N: 500000 cycles min. 3.5 N: 200000 cycles min.
Operating Temperature		-40 $^{\circ}$ C to +85 $^{\circ}$ C	
Storage Temperature		-40 $^{\circ}$ C to +85 $^{\circ}$ C (Bulk) -20 $^{\circ}$ C to +60 $^{\circ}$ C (Taping)	
Minimum Quantity/Packing Unit		2500 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton		12500 pcs.	

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Dec. 2008

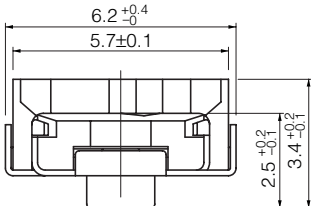
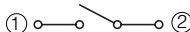
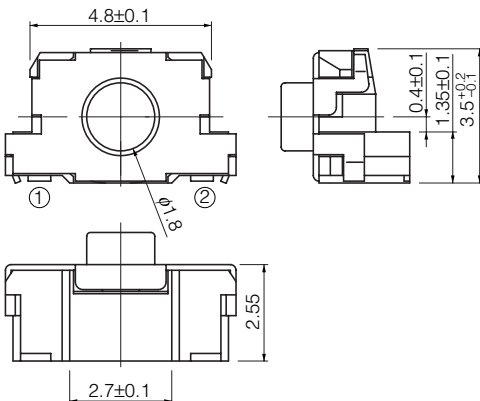
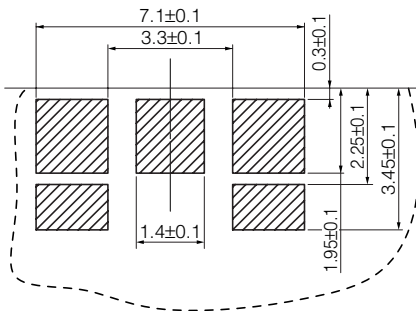
■ Dimensions in mm (not to scale)

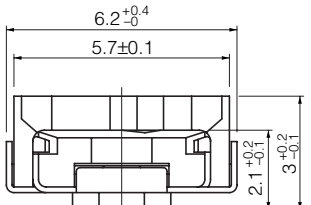
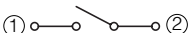
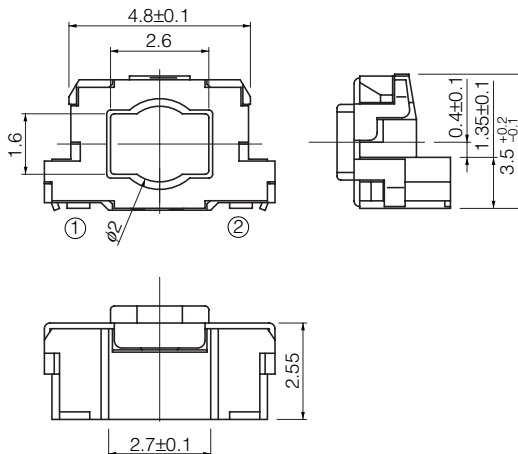
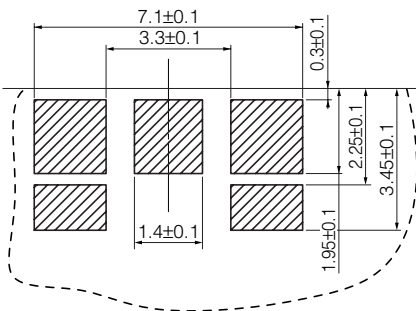
No. 1				
EVQP4				
Middle push travel				
				
				
		* Height from surface of PCB : 1.35 mm		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP4H03B	2.5 N	3.5 mm	Blue	1000000 cycles
EVQP4K03Q	3.5 N	3.5 mm	Grey	500000 cycles
EVQP4M03K	5.0 N	3.5 mm	Black	200000 cycles
No. 2				
EVQP4				
Short push travel				
				
				
		* Height from surface of PCB : 1.35 mm		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP4003M	1.0 N	3.5 mm	Natural	1000000 cycles
EVQP4203M	1.6 N	3.5 mm	Natural	1000000 cycles
EVQP4403M	2.4 N	3.5 mm	Natural	500000 cycles
EVQP4603M	3.5 N	3.5 mm	Natural	200000 cycles

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■ Dimensions in mm (not to scale)

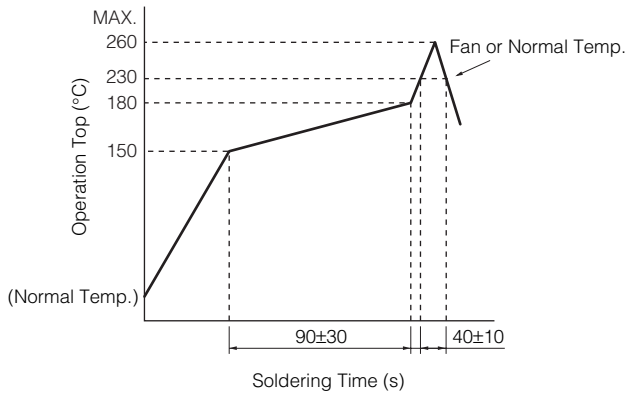
No. 3 EVQP8 Middle push travel 		  Circuit diagram   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP8H03B		2.5 N	3.5 mm	Blue	1000000 cycles
EVQP8K03Q		3.5 N	3.5 mm	Grey	500000 cycles
EVQP8M03K		5.0 N	3.5 mm	Black	200000 cycles

No. 4 EVQP8 Short push travel 		  Circuit diagram   PWB land pattern for reference			
Part Numbers		Operating Force	Height	Push Plate Color	Operating Life
EVQP8003M		1.0 N	3.5 mm	Natural	1000000 cycles
EVQP8203M		1.6 N	3.5 mm	Natural	1000000 cycles
EVQP8403M		2.4 N	3.5 mm	Natural	500000 cycles
EVQP8603M		3.5 N	3.5 mm	Natural	200000 cycles

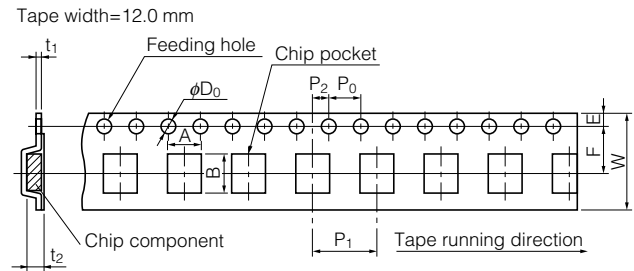
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Jun. 2008

■ Recommended Reflow Soldering Conditions



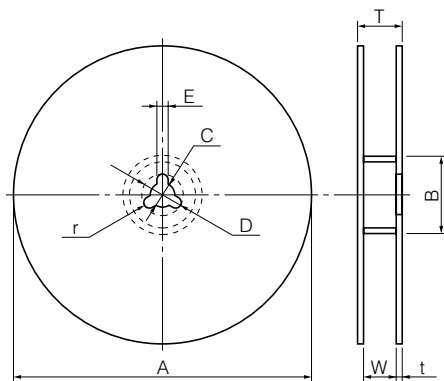
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP4	3.5	6.5±0.2	3.9±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	0.4±0.1	3.75±0.20
EVQP8			3.65±0.20									

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	φ370.0±2.0	φ50.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5

Item	W	T	t	r
Rate (mm)	14.0±1.5	—	1.0 to 3.0	1.0±0.5