

6 mm Square Long Travel SMD Light Touch Switches

Type: **EVQP1/EVQ9P**



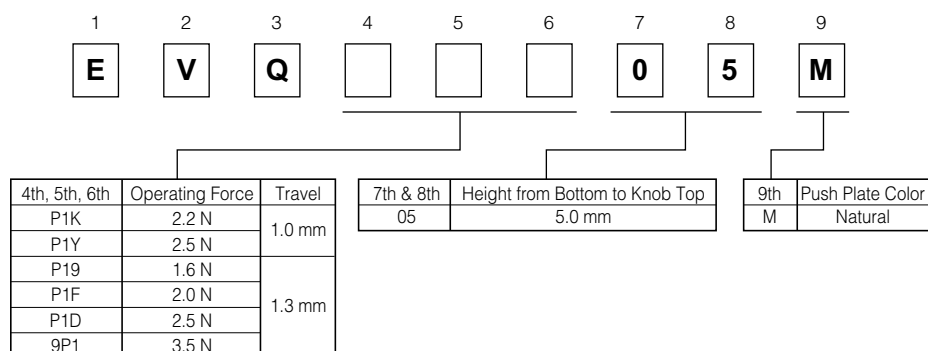
■ Features

- External dimensions : 6.0 mm×6.1 mm, Height 5.0 mm
(Including the push plate)
- Steady and low contact resistance (100 mΩ max.)
- Excellent solderability (J-bent-type terminals)

■ Recommended Applications

- Car electronics equipment

■ Explanation of Part Numbers



■ Specifications

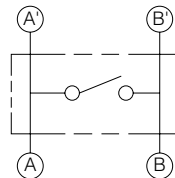
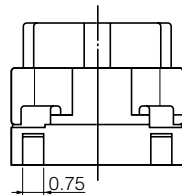
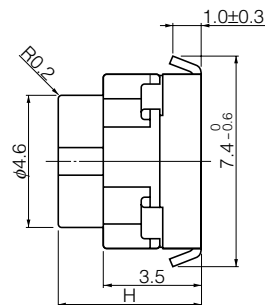
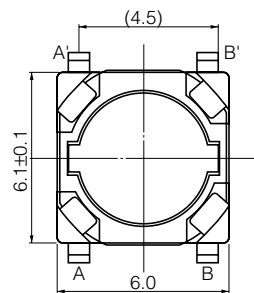
Type		Snap action/Push-on type SPST		
Electrical	Rating	10 μA 2 Vdc to 50 mA 12 Vdc (Resistive load)		
	Contact Resistance	100 mΩ max.		
	Insulation Resistance	100 MΩ min. (at 100 Vdc)		
	Dielectric Withstanding Voltage	250 Vac for 1 minute		
	Bouncing	10 ms max. (ON, OFF)		
Mechanical	Operating Force	1.6 N±0.5 N, 2.0 N±0.6 N 2.5 N±0.6 N 3.5 N±1.0 N	2.2 N±0.6 N 2.5 N±0.6 N	
	Travel	1.3 mm±0.2 mm	1.0 mm±0.2 mm	
Endurance	Operating Life	3.5 N type: 30000 cycles min.		
		1.6 N, 2.0 N, 2.2 N, 2.5 N types: 100000 cycles min.		
Operating Temperature		-40 °C to +85 °C		
Storage Temperature		-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)		
Minimum Quantity/Packing Unit		2000 pcs. Embossed Taping (Reel Pack)		
Quantity/Cartron		10000 pcs.		

■ Dimensions in mm (not to scale)

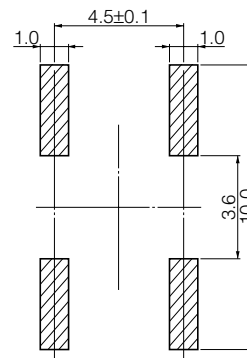
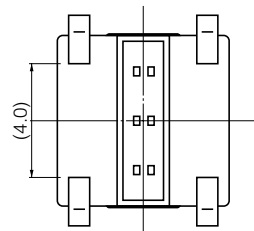
EVQP1

EVQ9P

(Embossed Taping)



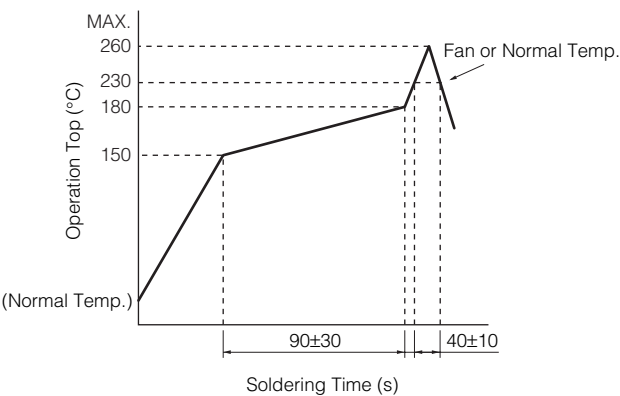
Circuit diagram



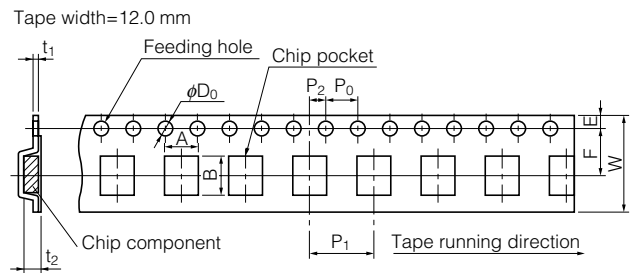
PWB land pattern for reference

Part Numbers	Operating Force	Travel	H=Height	Push Plate Color	Operating Life
EVQP1K05M	2.2 N	1.0 mm	5.0 mm	Natural	100000 cycles
EVQP1Y05M	2.5 N	1.0 mm	5.0 mm	Natural	100000 cycles
EVQP1905M	1.6 N	1.3 mm	5.0 mm	Natural	100000 cycles
EVQP1F05M	2.0 N	1.3 mm	5.0 mm	Natural	100000 cycles
EVQP1D05M	2.5 N	1.3 mm	5.0 mm	Natural	100000 cycles
EVQ9P105M	3.5 N	1.3 mm	5.0 mm	Natural	30000 cycles

■Recommended Reflow Soldering Conditions

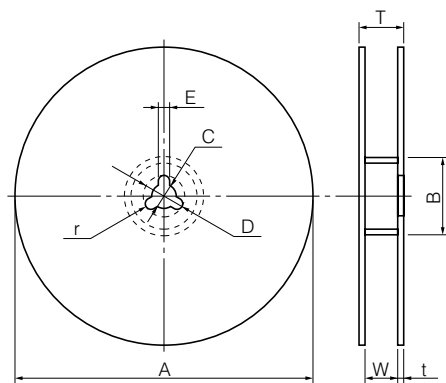


● Embossed Carrier Taping



Unit: mm												
Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQP1 EVQ9P	5.0	6.4 ± 0.2	7.9 ± 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	$1.5^{+0.1}_{-0}$	0.5 ± 0.1	5.25 ± 0.20

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	$\phi 370.0 \pm 2.0$	$\phi 50.0$ min.	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	2.0 ± 0.5

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