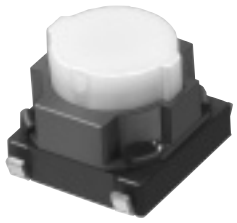
Japan

6 mm Square Long Travel
Light Touch Switches for Reflow Soldering

Type: **EVQP1/EVQ9P**



Reflow Light Touch Switches with total height of 5 mm, long travel of 1.3 mm and 1.0 mm

■ Features
- Steady and low contact resistance (100 mΩ max.)
- Improved operation using a larger push plate (ϕ4.6 mm)
- Excellent solderability (J-bent-type terminals)

■ Recommended Applications
- Car electronics equipment
- Input operation switches for telephones, electronic musical instruments

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9
E	V	Q	□	□	□	0	5	M

4th, 5th, 6th	Operating Force	Travel
P1K	2.2 N	1.0 mm
P1Y	2.5 N	
P19	1.6 N	1.3 mm
P1F	2.0 N	
P1D	2.5 N	
9P1	3.5 N	

7th & 8th	Height from Bottom to Knob Top
05	5.0 mm

9th	Push Plate Color
M	Natural

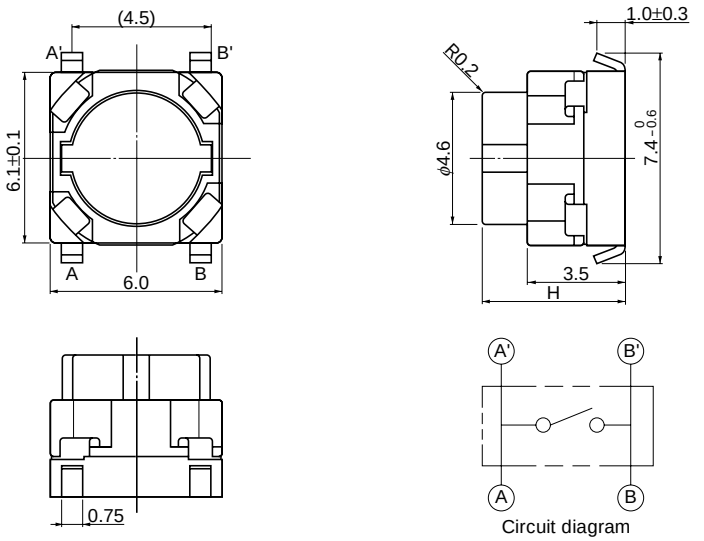
■ Specifications

Type		Snap action/Push-on type SPST	
Electrical	Rating	50 mA 12 Vdc max. (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	2.0 N±0.6 N, 1.6 N±0.5 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 (45 % to 85 % RH)	
	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/Carton		10000 pcs.	

■ Dimensions in mm (not to scale)

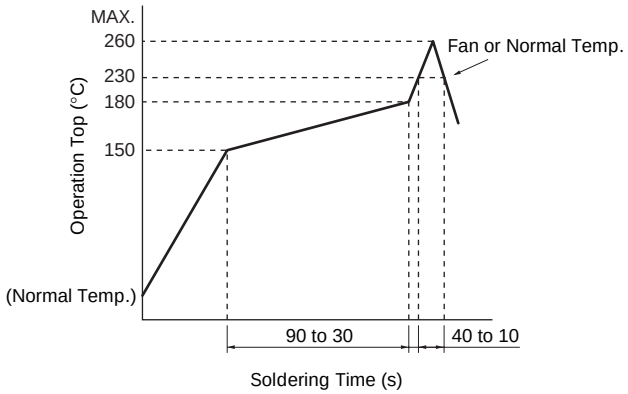
EVQP1
EVQ9P

(Embossed Taping)

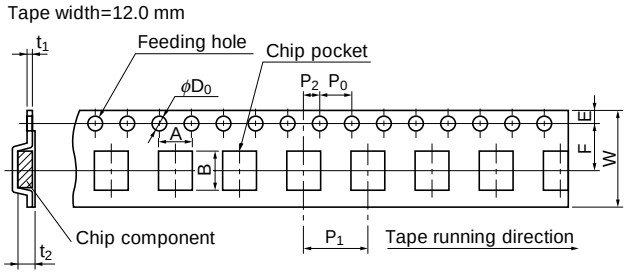


Part Numbers	Operating Force	Travel	H=Height	Push Plate Color	Operating Life
EVQP1K05M	2.2 N	1.0 mm	5.0 mm	Natural	100000 cycles
EVQP1Y05M	2.5 N	1.0 mm	5.0 mm	Natural	100000 cycles
EVQP1905M	1.6 N	1.3 mm	5.0 mm	Natural	100000 cycles
EVQP1F05M	2.0 N	1.3 mm	5.0 mm	Natural	100000 cycles
EVQP1D05M	2.5 N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



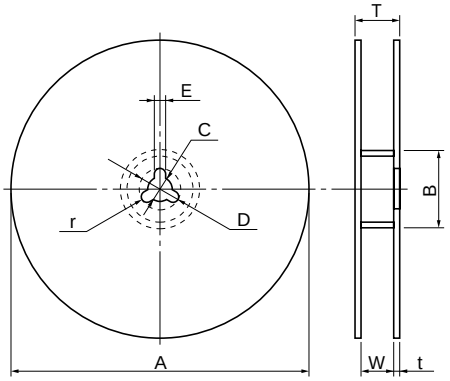
● Embossed Carrier Taping



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)	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