# Panasonic

6 mm Square Long Travel SMD Light Touch Switches

### Type: EVQP0/EVQP1/EVQ9P



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

#### Recommended Applications

• Car electronics equipment

#### Explanation of Part Numbers



#### Specifications

Туре		Snap action/Pus	h-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 3.0 N±0.8 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, 3.0 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/Carton		10000 pcs.				

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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### Dimensions in mm (not to scale)

EVQP0 EVQP1

EVQ9P

(Embossed Taping)









PWB land pattern for reference

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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	
EVQP0405M	3.0 N	1.3 mm	5.0 mm	Natural	100000 cycles	
EVQ9P105M	3.5 N	1.3 mm	5.0 mm	Natural	30000 cycles	
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### Recommended Reflow Soldering Conditions



• Embossed Carrier Taping



Unit: mm

												Unit. mini
Part No.	Height	A	В	W	F	E	P1	P <sub>2</sub>	Po	D₀ Dia.	t1	t2
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 <sup>+0.1</sup>	0.4±0.1	5.25±0.20

• Standard Reel Dimensions in mm (not to scale)



Item	А	В	С	D	E	
Rate (mm)	ø370.0±2.0	<i>ø</i> 50.0 min.	<i>ф</i> 13.0±0.5	<i>ф</i> 21.0±1.0	2.0±0.5	
Item	W	Т	t	r		
Rate (mm)	14.0±1.5	_	1.0 to 3.0	1.0±0.5		