# Panasonic

# 6.1 mm×4.0 mm Side-operational SMD Light Touch Switches

Type: **EVQPS** 



### Features

- External dimensions : 6.1 mm×4.0 mm, Height 1.8 mm
- Terminal shapes : straight, J-bent

### Recommended Applications

• Car navigation, Car audio

## Explanation of Part Numbers



### Specifications

Туре		Snap action / Push-on type SPST			
	Rating	10 µA 2 Vdc to 50 mA 12 Vdc (Resistiv load)			
Electrical	Contact Resistance	500 m $\Omega$ 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 <sup>+0.7</sup> <sub>-0.4</sub> N	2.2 N <sup>+0.8</sup> <sub>-0.7</sub> N		
	Travel	0.3 mm <sup>+0.1</sup> <sub>-0.2</sub> mm			
	Push Strength	30 N for 1 minute			
Endurance	Operating Life	100000 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		4000 pcs. Embossed Taping (Reel Pack)			
Quantity/Carton		16000 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)

Dimensions in mm (no	t to scale)				
No. 1					
EVQPSD EVQPSH J-bent terminals, with Boss	€ 6.1 3.4±0.2 6.1 7.4		1.8 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	A A A Circuit Diagram	
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life	
EVQPSD02K	1.6 N	1.8 mm	Black	100000 cycles	
EVQPSH02K	2.2 N	1.8 mm	Black	100000 cycles	
No. 2 EVQPSM EVQPSR Straight terminals, with Boss					
	6.1 6.1 7.4		1.4 0.5 1.4	A O O B I O O O O O I O O O O O A' O O O O A' O O O O B'	
Part Numbers	6.1 7.4		0.5 1.4 1.4 0.5 0.		
Part Numbers EVQPSM02K EVQPSR02K	6.1 7.4		0.5 1.4 1.4 0.5 1.4 0.5 0.	A' O B'	

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## Recommended Reflow Soldering Conditions



• Embossed Carrier Taping



Unit: mm

												Unit. mini
Part No.	Height	Α	В	W	F	E	P1	P2	Po	D₀ Dia.	t1	t2
EVQPS	1.8	6.8±0.2	8.0±0.2	16.0±0.3	7.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5+0.1	0.30±0.05	2.7±0.2

• 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)	18.0±1.5	_	1.0 to 3.0	1.0±0.5		