# 4.7 mm×3.5 mm SMD Light Touch Switches

# Type: EVQP2/EVQP9/EVQ3P2





#### ■ Features

● External dimensions: 4.7 mm×3.5 mm,

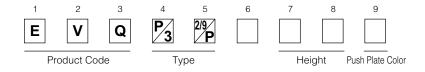
Height: Middle Push Travel 2.5 mm Short Push Travel 2.1 mm, 2.5 mm

- High operating force and long operational life
- High mountability with J-bent (4 terminals)

## ■ Recommended Applications

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

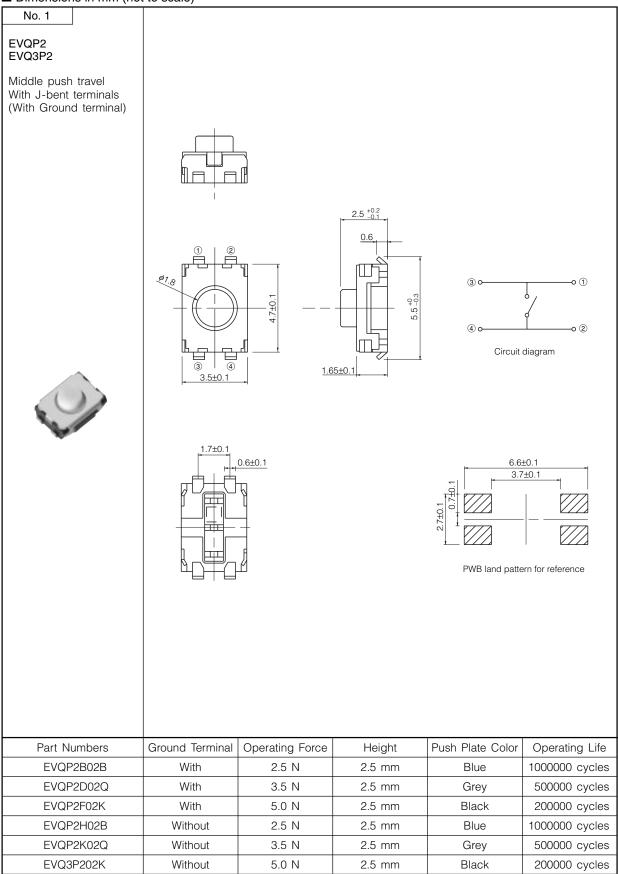
## ■ Explanation of Part Numbers



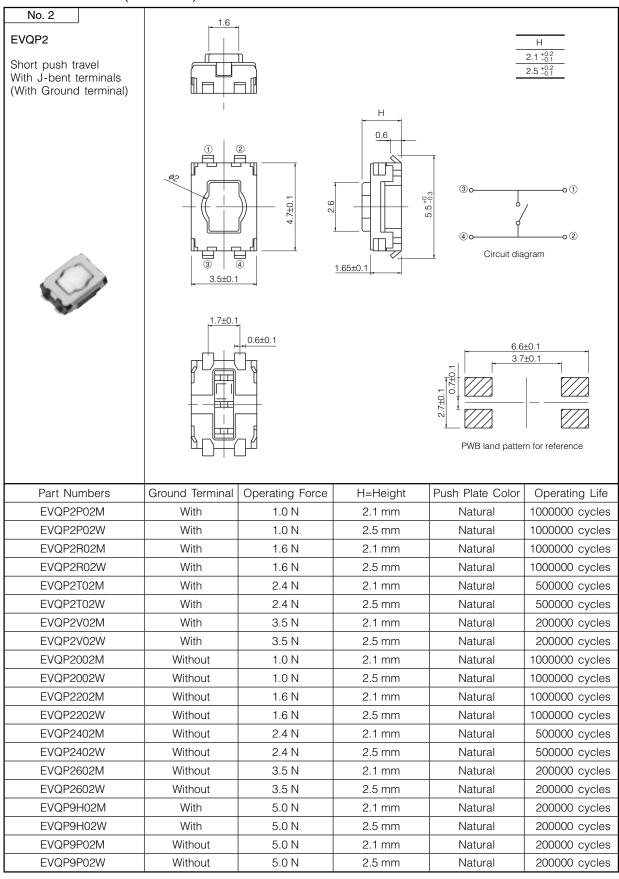
# ■ Specifications

Travel Type		Middle Push Travel	Short Push Travel			
Туре		Snap action / Push-on type SPST				
	Rating	10 μA 2 Vdc to 20 mA 15 Vdc (Resistive load)				
	Contact Resistance	100 m $\Omega$ max.				
Electrical	Insulation Resistance	100 MΩ min.				
	Dielectric Withstanding Voltage	250 Vac (1 minute)				
	Bouncing	10 ms max. (ON, OFF)				
Machaniaal	Operating Force	2.5 N, 3.5 N, 5.0 N	1.0 N, 1.6 N, 2.4 N, 3.5 N, 5.0 N			
Mechanical	Travel	0.70 mm±0.20 mm	0.25 mm <sup>+0.05</sup> <sub>-0.15</sub> mm			
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 5.0 N: 200000 cycles min			
Operating Tem	nperature	-40 °C to +85 °C				
Storage Temperature		-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)				
Minimum Quar	ntity/Packing Unit	4000 pcs. Embossed Taping (Reel Pack)				
Quantity/Carto	n	20000 pcs.				

#### ■ Dimensions in mm (not to scale)



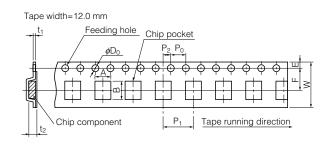
#### ■ Dimensions in mm (not to scale)



# ■ Recommended Reflow Soldering Conditions

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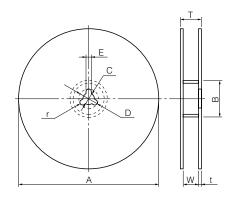
## Embossed Carrier Taping



Unit: mm

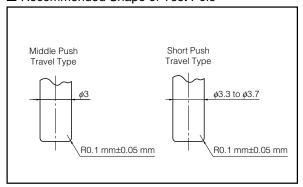
•	Part No.	Height	А	В	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D₀ Dia.	t1	t2
	EVQP2 EVQP9 EVQ3P2	2.1 2.5	6.0±0.2	4.7±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5+0.1	0.3±0.1	2.7±0.2

#### Standard Reel Dimensions in mm (not to scale)



Item	Α	В	С	D	Е
Rate (mm)	φ370.0±2.0	φ50.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5
	144				
Item	W		t	r	
Rate (mm)	14.0±1.5	_	1.0 to 3.0	1.0±0.5	

## ■ Recommended Shape of Test Pole



## ■ Recommended Operating Conditions

