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

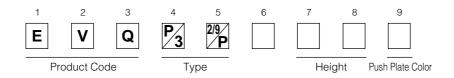
Short Push Travel 2.1 mm, 2.5 mm

- 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

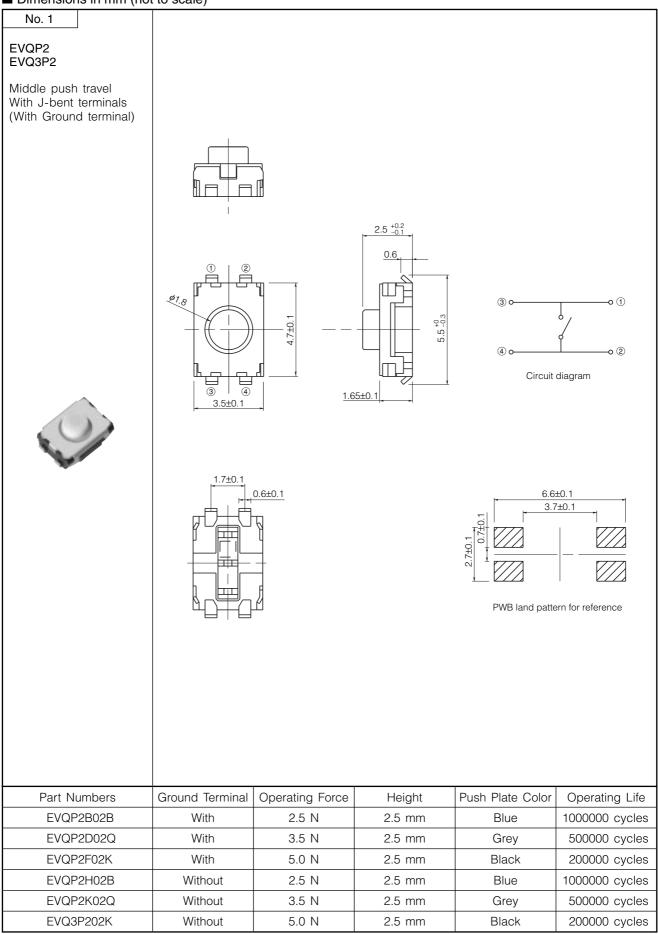
■ Explanation of Part Numbers



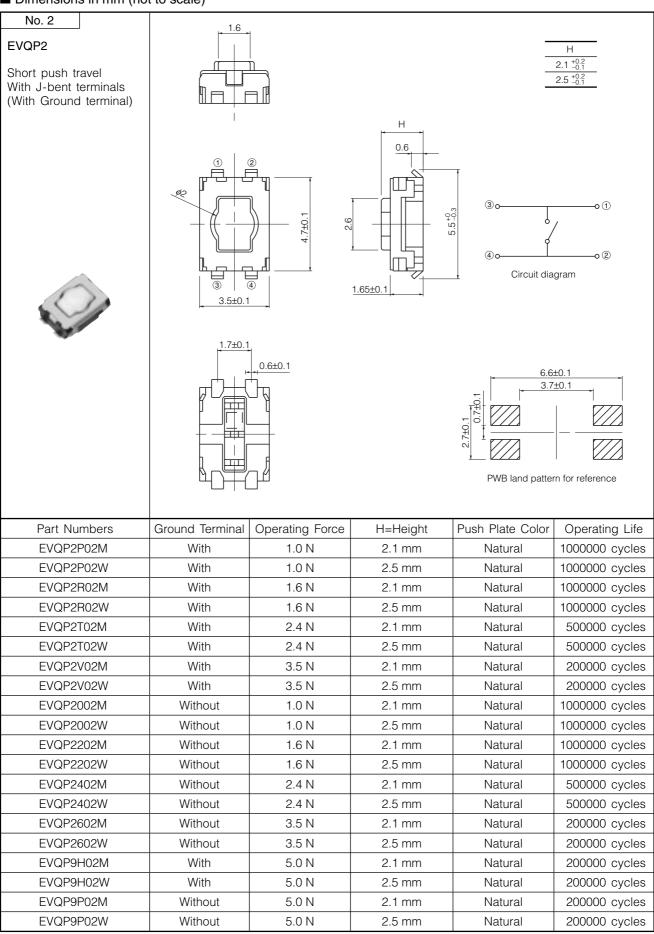
■ Specifications

Travel Type		Middle Push Travel	Short Push Travel			
Туре		Snap action / Push-on type SPST				
Electrical	Rating	10 μA 2 Vdc to 20 mA 15 Vdc (Resistive load)				
	Contact Resistance	100 mΩ max.				
	Insulation Resistance	100 MΩ min.				
	Dielectric Withstanding Voltage	250 Vac (1 minute)				
	Bouncing	10 ms max. (ON, OFF)				
	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 ^{+0.05} _{-0.15} 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 Temperature		−40 °C to +85 °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		20000 pcs.				
		•				

■ Dimensions in mm (not to scale)



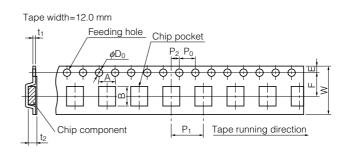
■ Dimensions in mm (not to scale)



■ Recommended Reflow Soldering Conditions

MAX. 260 Fan or Normal Temp. 230 Operation Top (°C) 180 150 (Normal Temp.) 90±30 40±10 Soldering Time (s)

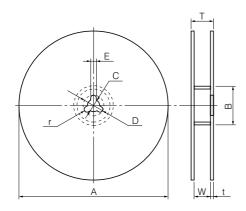
Embossed Carrier Taping



Unit: mm

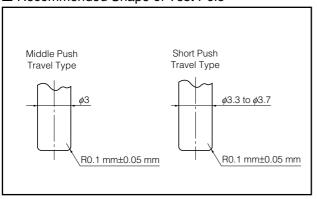
Part No.	Height	А	В	W	F	E	P ₁	P ₂	P ₀	D₀ Dia.	t1	t ₂
EVQP2 EVQP9 EVQ3P2	2.1 2.5	6.0±0.2	4.7±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1}	0.3±0.1	2.7±0.2

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
Item	VV	I	t	r	

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions

