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

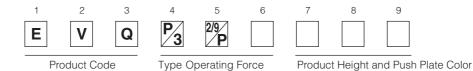
Short Push Travel 2.1 mm, 2.5 mm

- 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

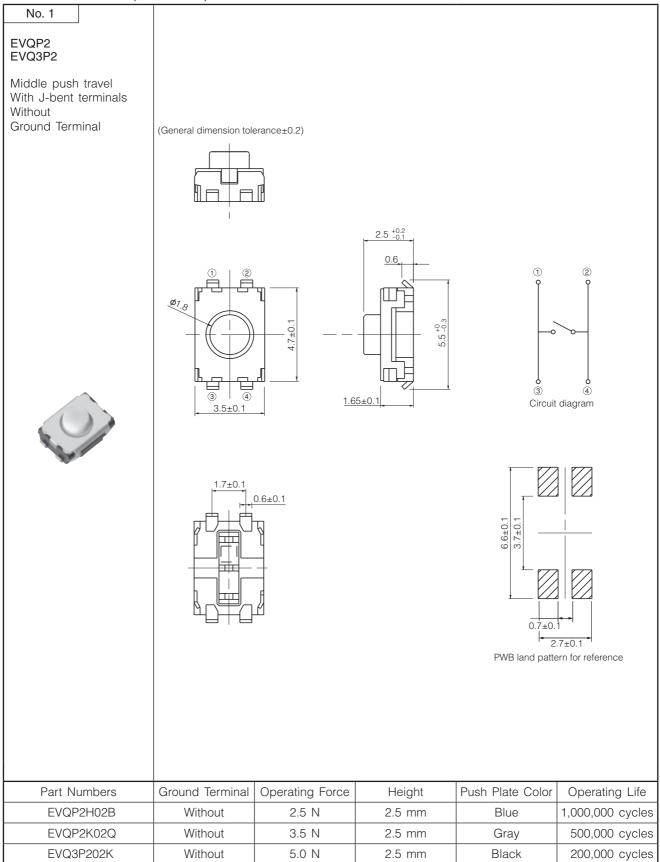
■ Explanation of Part Numbers



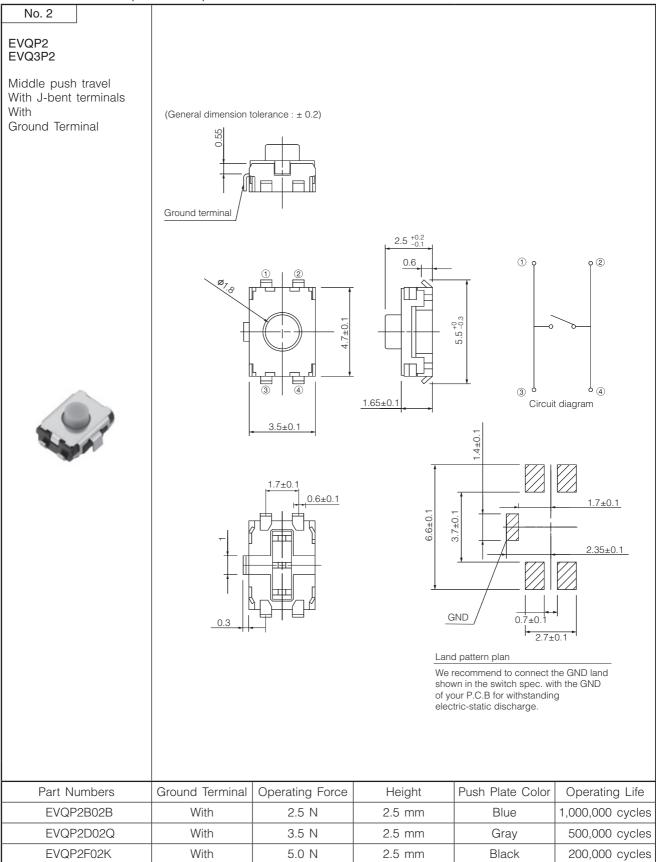
■ Specifications

Travel Type		Middle Push Travel	Short Push Travel				
Туре		Snap action / Push-on V DC type SPST					
Electrical	Rating	10 μA 2 V DC to 20 mA 15 V DC (Resistive load)					
	Contact Resistance	100 mΩ max.					
	Insulation Resistance	100 MΩ min. (at 100 V DC)					
	Dielectric Withstanding Voltage	250 V AC (1 minute)					
	Bouncing	10 ms max. (ON, OFF)					
Mechanical	Operating Force	2.5 N, 3.5 N, 5.0 N	1.0 N, 1.6 N, 2.4 N, 3.5 N, 4.0 N, 5.0 N				
	Travel	0.70 mm±0.20 mm	0.25 mm ^{+0.05} mm				
Endurance	Operating Life	2.5 N:1,000,000 cycles min. 3.5 N: 500,000 cycles min. 5.0 N: 200,000 cycles min.	1.0 N, 1.6 N: 1,000,000 cycles min. 2.4 N: 500,000 cycles min. 3.5 N: 200,000 cycles min. 4.0 N: 200,000 cycles min. 5.0 N: 200,000 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		4,000 pcs. Embossed Taping (Reel Pack)					
Quantity/Carton		20,000 pcs.					

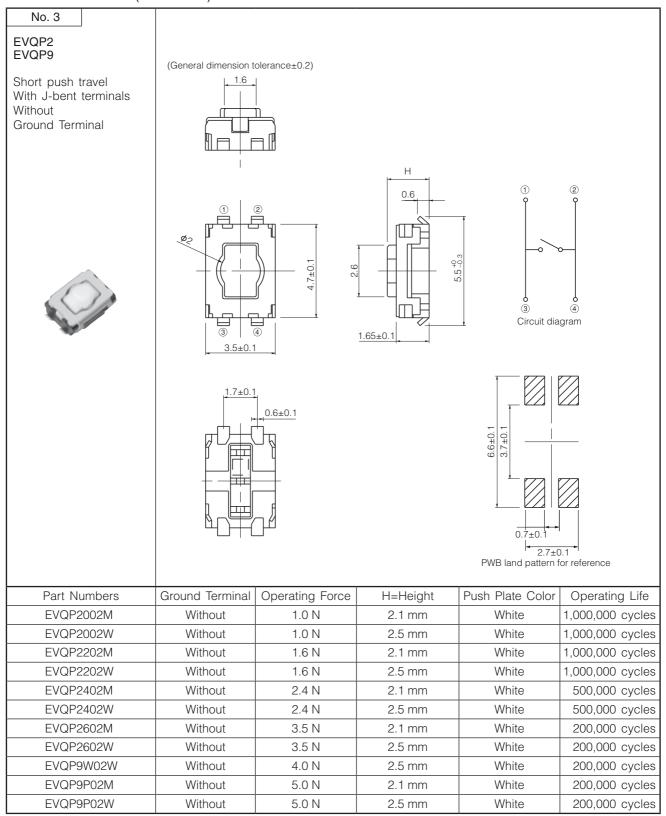
■ Dimensions in mm (not to scale)



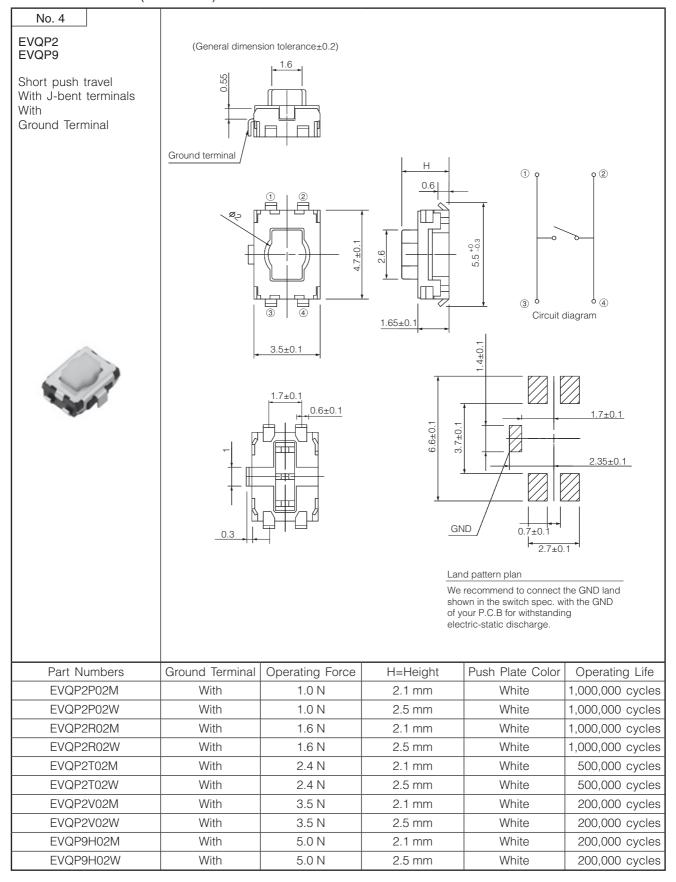
■ Dimensions in mm (not to scale)



■ Dimensions in mm (not to scale)



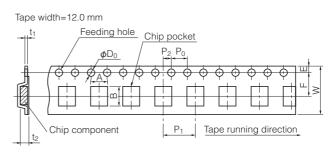
■ Dimensions in mm (not to scale)



■ Recommended Reflow Soldering Conditions

MAX. 260 Fan or Normal Temp. 230 180 Fan or Normal Temp. (Normal Temp.) 90±30 40±10 Soldering Time (s)

Embossed Carrier Taping



Taping condition: Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.

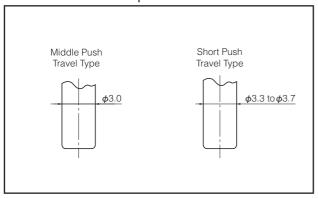
Peeling off strength of top tape: It should be within 0.2N to 1. ON at 165 degree in peeling off angle.

Joint of carrier tape: One joint per one reel may exist.

Unit: mm

Part No.	Height	А	В	W	F	Е	P ₁	P ₂	Po	D₀ Dia.	t ₁	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

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions

