6 mm Square Thin Type SMD **Light Touch Switches**

Type: **EVQP0 EVQQ2**





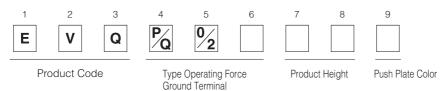
■ Features

- External dimensions: 6.5 mm×6.0 mm, Height 1.8 mm (Excluding the push plate)
- With or without ground terminal, height, operating force
- Overstroke travel

■ Recommended Applications

- Operating switches for other electronic equipment
- Operation switches for PC mouse
- Car audio systems
- Game

■ Explanation of Part Numbers

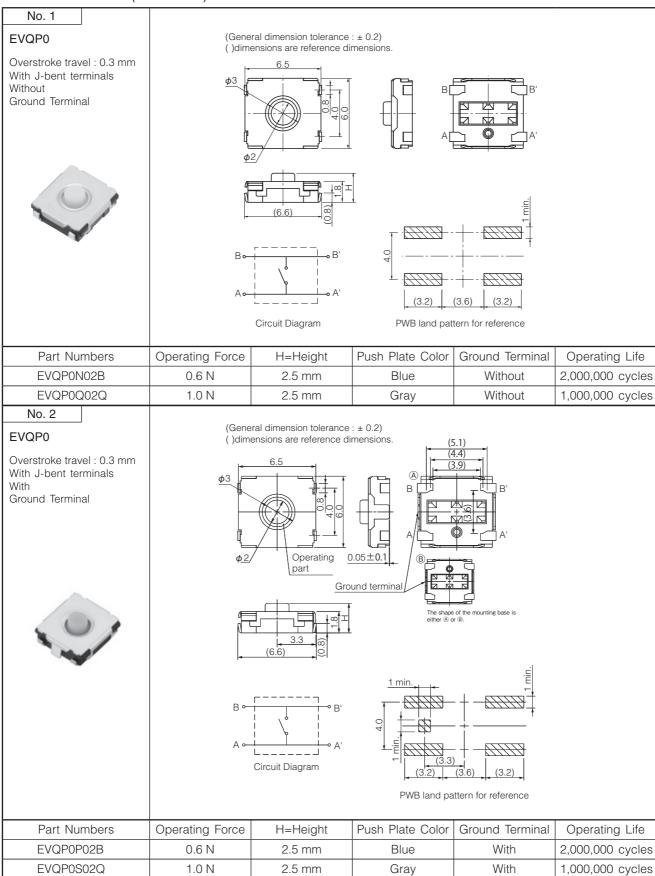


Specifications

Travel Type		Short Push Travel	Overstroke Travel						
Туре		Snap action/Push-on 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 for 1 minute							
	Bouncing	10 ms m	ax. (ON, OFF)						
Mechanical	Operating Force	0.5 N, 1.0 N, 1.3 N, 1.6 N, 2.6 N, 3.5 N	0.6 N, 1.0 N						
	Travel	0.25 mm (0.2 mm : 0.5N, 1.0N)	0.3 mm						
Endurance	Operating Life	0.5 N : 2,000,000 cycles m 1.0 N, 1.3 N, 1.6 N : 1,000,000 cycles m 2.6 N : 2,000,00 cycles min 3.5 N : 100,000 cycles min	in. 0.6 N : 2,000,000 cycles min. 1.0 N : 1,000,000 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			s. Embossed Taping (Reel Pack)						
			s. Embossed Taping (Reel Pack)						
Quantity/Carton		H=2.0 mm 20,000 pc H=2.5 mm, 3.1 mm 10,000 pc							

Note: Non washable

■ Dimensions in mm (not to scale)



■ Dimensions in mm (not to scale)

No. 3 EVQQ2 (General dimension tolerance : ± 0.2) () dimensions are reference dimensions Short travel 0.25 mm 6.5 With J-bent terminals Without Ground Terminal Circuit Diagram PWB land pattern for reference Part Numbers Operating Force H=Height Push Plate Color **Ground Terminal** Operating Life EVQQ2B01W 0.5 N 2,000,000 cycles 2.0 mm White Without 0.5 N 2.5 mm 2,000,000 cycles EVQQ2B02W White Without EVQQ2B03W 0.5 N White Without 2,000,000 cycles 3.1 mm White Without 1,000,000 cycles EVQQ2F01W 1.0 N 2.0 mm Without White EVQQ2F02W 1.0 N 2.5 mm 1,000,000 cycles 3.1 mm White Without EVQQ2F03W 1.0 N 1,000,000 cycles EVQQ2K01W 1.3 N 2.0 mm White Without 1,000,000 cycles EVQQ2K02W 1.3 N 2.5 mm White Without 1,000,000 cycles 1,000,000 cycles EVQQ2K03W 1.3 N 3.1 mm White Without EVQQ2P01W 1.6 N 2.0 mm White Without 1,000,000 cycles 2.5 mm White 1,000,000 cycles EVQQ2P02W 1.6 N Without 1,000,000 cycles EVQQ2P03W 1.6 N 3.1 mm White Without EVQQ2U01W 2.6 N 2.0 mm White Without 200,000 cycles 200,000 cycles EVQQ2U02W 2.6 N 2.5 mm White Without EVQQ2U03W 2.6 N 3.1 mm White Without 200,000 cycles EVQQ2Y01W 3.5 N 2.0 mm White Without 100,000 cycles EVQQ2Y02W 3.5 N 2.5 mm White Without 100,000 cycles EVQQ2Y03W 3.5 N 3.1 mm White Without 100,000 cycles

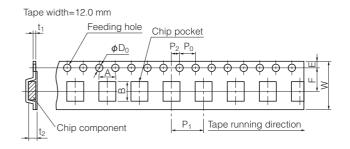
Dimensions in mm (not to scale)

No. 4 (General dimension tolerance: ± 0.2) EVQQ2 () dimensions are reference dimensions. Short travel 0.25 mm (4.4)With J-bent terminals <u>φ3.</u>8 With В Ground Terminal Operating <u>0.05±0.</u>1 ф3 part Ground terminal The shape of the mounting base is either (A) or (B). (6.6)1 min Circuit Diagram PWB land pattern for reference Part Numbers Operating Force H=Height Push Plate Color Ground Terminal Operating Life With EVQQ2D01W 2.0 mm 2,000,000 cycles 0.5 N White EVQQ2D02W 0.5 N 2.5 mm White With 2,000,000 cycles EVQQ2D03W 0.5 N 3.1 mm White With 2,000,000 cycles EVQQ2H01W 1.0 N 2.0 mm White With 1,000,000 cycles With 1.0 N White EVQQ2H02W 2.5 mm 1,000,000 cycles With EVQQ2H03W 1.0 N 3.1 mm White 1,000,000 cycles EVQQ2M01W 1.3 N 2.0 mm White With 1,000,000 cycles EVQQ2M02W 1.3 N 2.5 mm White With 1,000,000 cycles 3.1 mm EVQQ2M03W 1.3 N White With 1,000,000 cycles EVQQ2S01W 2.0 mm White With 1,000,000 cycles 1.6 N EVQQ2S02W 1.6 N 2.5 mm White With 1,000,000 cycles EVQQ2S03W 1.6 N 3.1 mm White With 1,000,000 cycles EVQQ2W01W 2.6 N 2.0 mm White With 200,000 cycles EVQQ2W02W 2.6 N 2.5 mm White With 200,000 cycles White With EVQQ2W03W 2.6 N 3.1 mm 200,000 cycles With White EVQQ2201W 3.5 N 2.0 mm 100,000 cycles EVQQ2202W 3.5 N 2.5 mm White With 100,000 cycles EVQQ2203W 3.5 N 3.1 mm White With 100,000 cycles

■ Recommended Reflow Soldering Conditions

MAX. 260 Fan or Normal Temp. 230 180 150 (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.

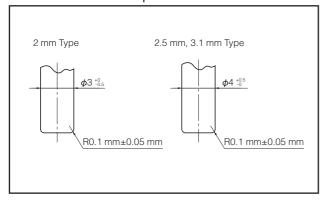
Peeling off strength of top tape: It should be within 0.2N to 1. ON at 165 degree in peeling off angle.

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

Unit: mm

Part No.	Height	Α	В	W	F	E	P ₁	P ₂	P ₀	Do Dia	t1	t2
EVQQ2	2.0											2.2±0.2
EVQQZ	2.5/3.1	6.7±0.2	7.4±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	0.30±0.05	3.2±0.2
EVQP0	2.5											2.8±0.2

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions

