6 mm Square Thin Type SMD Light Touch Switches

Type: EVQP0
EVQQ2
EVQ6Q2
EVQ7Q2



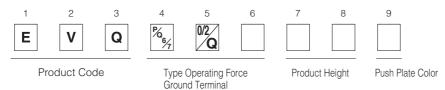
■ Features

- 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

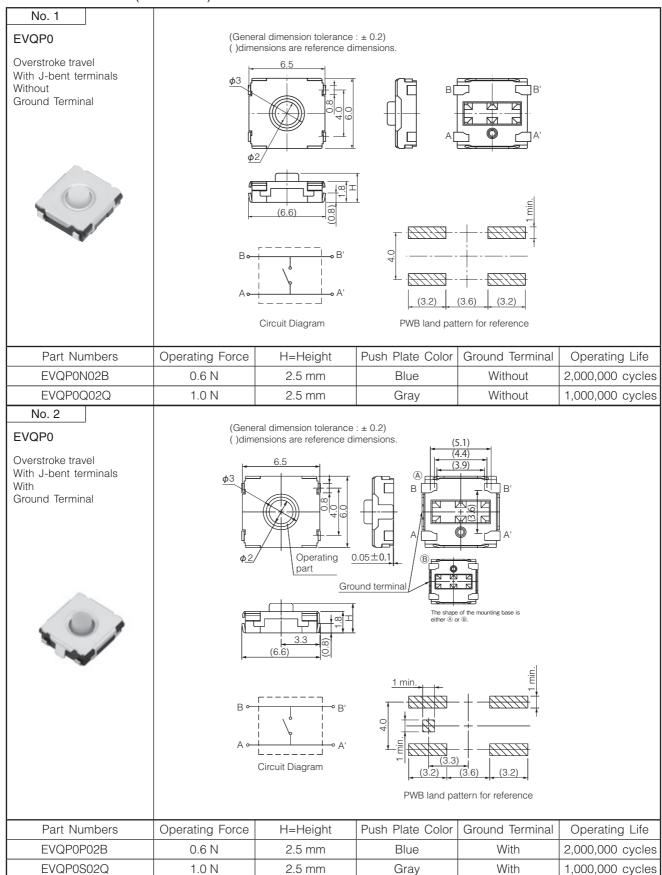


Specifications

Travel Type		Short Push Tra	ıvel	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 max. (ON, OFF)							
Mechanical	Operating Force	0.5 N, 0.8 N,1.0 N 1.6 N, 2.6 N, 3.5		0.6 N, 1.0 N					
	Travel	0.5 N, 0.8 N, 1.0 N 1.3 N, 1.6 N, 2.6 N, 3.		0.30 mm					
Endurance	Operating Life	0.5 N, 0.8 N : 2,000,0 1.0 N, 1.3 N, 1.6 N : 1,000,0 2.6 N : 200,00 3.5 N : 100,00	000 cycles min. 0 cycles min.	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		H=2.0 mm	4,000 pcs.	Embossed Taping (Reel Pack)					
IVIII III III Qu	H=2.5 mm, 3.1 mm 2,000 pcs. Embossed Taping (Reel Pack								
Quantity/Carton		H=2.0 mm	20,000 pcs.						
Qualitity/Oai	1011	H=2.5 mm, 3.1 mm 10,000 pcs.							

Note: Non washable

■ Dimensions in mm (not to scale)



■ Dimensions in mm (not to scale)

No. 3 EVQQ2/6Q2 (General dimension tolerance : ± 0.2) () dimensions are reference dimensions Short travel 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 EVQ6Q201W 0.8 N 2.0 mm 2,000,000 cycles White Without EVQ6Q202W 0.8 N 2.5 mm 2,000,000 cycles EVQ6Q203W 0.8 N 3.1 mm White Without 2,000,000 cycles EVQQ2F01W 1.0 N 2.0 mm White Without 1,000,000 cycles EVQQ2F02W 1.0 N 2.5 mm White Without 1,000,000 cycles EVQQ2F03W 1.0 N 3.1 mm White Without 1,000,000 cycles 1.3 N White 1,000,000 cycles EVQQ2K01W 2.0 mm Without 1.3 N White 1,000,000 cycles EVQQ2K02W 2.5 mm Without EVQQ2K03W 1.3 N 3.1 mm White Without 1,000,000 cycles White EVQQ2P01W 1.6 N 2.0 mm Without 1,000,000 cycles EVQQ2P02W 1.6 N 2.5 mm White Without 1,000,000 cycles EVQQ2P03W 1.6 N 3.1 mm White Without 1,000,000 cycles White Without EVQQ2U01W 2.6 N 2.0 mm 200,000 cycles EVQQ2U02W 2.6 N 2.5 mm White Without 200,000 cycles EVQQ2U03W 2.6 N 3.1 mm White Without 200,000 cycles EVQQ2Y01W 3.5 N White Without 100,000 cycles 2.0 mm 2.5 mm EVQQ2Y02W 3.5 N White Without 100,000 cycles EVQQ2Y03W 3.5 N 3.1 mm White Without 100,000 cycles

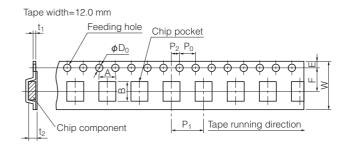
■ Dimensions in mm (not to scale)

No. 4 (General dimension tolerance: ± 0.2) EVQQ2/7Q2 () dimensions are reference dimensions. Short travel (4.4 With J-bent terminals ф3.8 With В Ground Terminal 0.05±0.1 Operating 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 With EVQQ2D02W 0.5 N 2.5 mm White 2,000,000 cycles EVQQ2D03W 0.5 N 3.1 mm White With 2,000,000 cycles EVQ7Q201W 0.8 N 2.0 mm White With 2,000,000 cycles White With 2,000,000 cycles EVQ7Q202W 0.8 N 2.5 mm EVQ7Q203W 0.8 N 3.1 mm White With 2,000,000 cycles EVQQ2H01W 1.0 N 2.0 mm White With 1,000,000 cycles With EVQQ2H02W 1.0 N 2.5 mm White 1,000,000 cycles 1.0 N White With EVQQ2H03W 3.1 mm 1,000,000 cycles With EVQQ2M01W 1.3 N 2.0 mm White 1,000,000 cycles 1.3 N 2.5 mm White With EVQQ2M02W 1,000,000 cycles EVQQ2M03W 1.3 N 3.1 mm White With 1,000,000 cycles White With EVQQ2S01W 1.6 N 2.0 mm 1,000,000 cycles White With EVQQ2S02W 1.6 N 2.5 mm 1,000,000 cycles White With EVQQ2S03W 1.6 N 3.1 mm 1,000,000 cycles EVQQ2W01W 2.6 N 2.0 mm White With 200,000 cycles 2.5 mm White With 200,000 cycles EVQQ2W02W 2.6 N 3.1 mm EVQQ2W03W 2.6 N White With 200,000 cycles EVQQ2201W 3.5 N 2.0 mm White With 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.

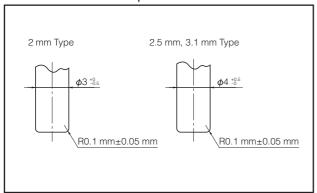
Peeling off strength of top tape: It should be within 0.2N to 1. ON at 165 degree in peeling off angle.

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

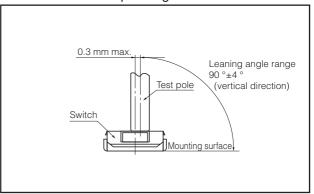
Unit: mm

Part No.	Height	Α	В	W	F	E	P ₁	P ₂	P ₀	Do Dia	t ₁	t2
EVQQ2 EVQ6Q2	2.0	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	2.2±0.2
EVQ6Q2 EVQ7Q2	2.5/3.1											3.2±0.2
EVQP0	2.5											2.8±0.2

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions



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