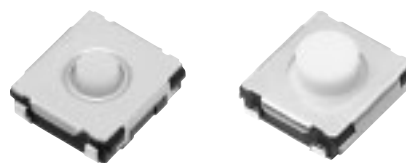


6 mm Square Thin Type SMD Light Touch Switches

Type: **EVQP0**
EVQQ2



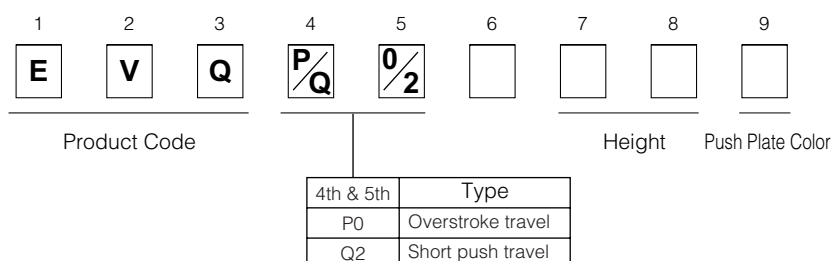
■ Features

- 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

■ Explanation of Part Numbers



■ Specifications

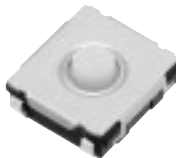
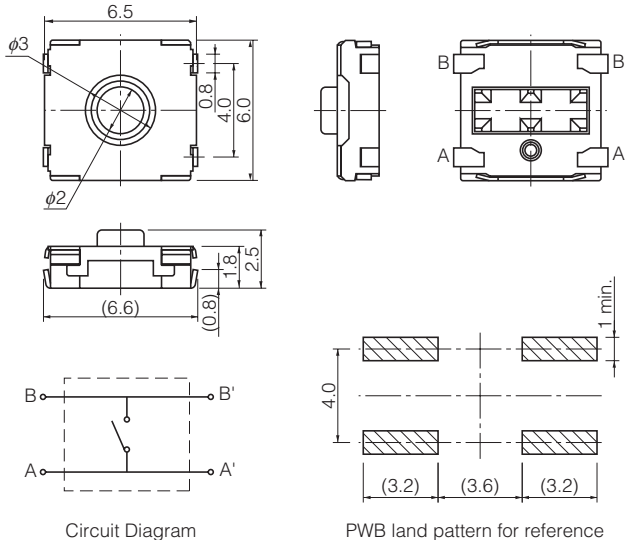
Travel Type		Short Push Travel	Overstroke Travel
Type		Snap action/Push-on type SPST	
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	100 m Ω max.	
	Insulation Resistance	100 M Ω min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	10 ms max. (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 : 2000000 cycles min. 1.0 N, 1.3 N, 1.6 N : 1000000 cycles min. 2.6 N : 200000 cycles min. 3.5 N : 100000 cycles min.	0.6 N : 2000000 cycles min. 1.0 N : 1000000 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	4000 pcs. Embossed Taping (Reel Pack)
		H=2.5 mm, 3.1 mm	2000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		H=2.0 mm	20000 pcs.
		H=2.5 mm, 3.1 mm	10000 pcs.

Note: Non washable

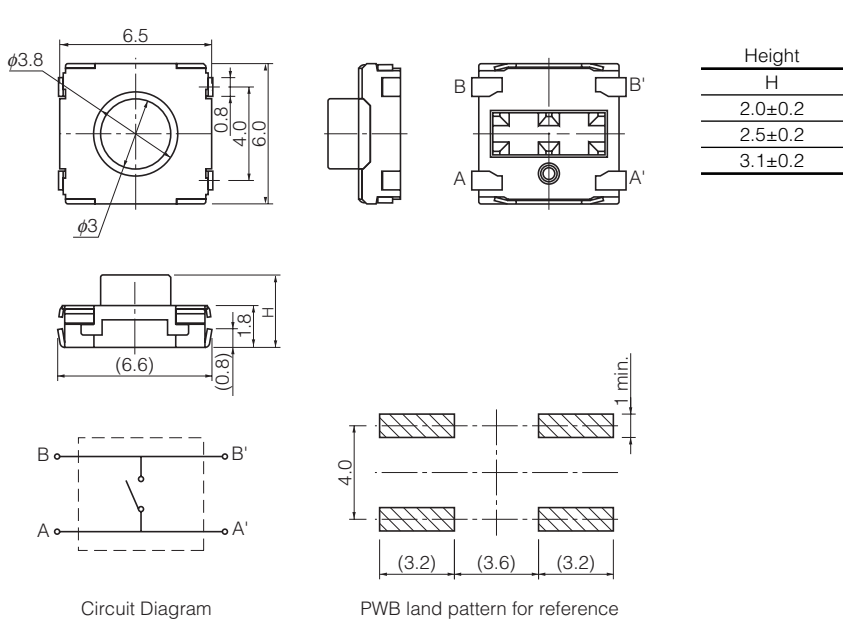
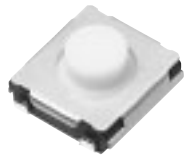
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■ Dimensions in mm (not to scale)

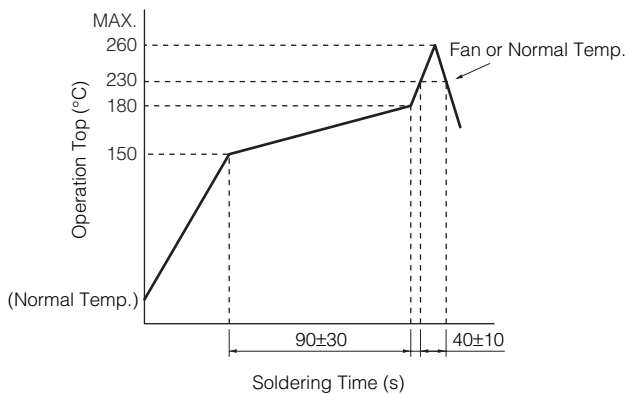
No. 1					
EVQP0					
Overstroke travel : 0.35 mm With J-bent terminals					
	 Technical drawings of the EVQP0 switch: Top View: Square push plate with dimensions 6.5 mm (width), 6.0 mm (height), and a central circular feature with diameter $\phi 2$. A mounting hole has a diameter of $\phi 3$. Side View: Shows the profile of the switch with a total height of 2.5 mm and a base thickness of 1.8 mm. The width is labeled as (6.6) mm. Bottom View: Shows the internal contacts and terminals labeled A, A', B, and B'. Circuit Diagram: A schematic showing the internal switch mechanism connecting terminals A to A' and B to B'. PWB land pattern for reference: A diagram showing the required pad dimensions for surface mounting: 4.0 mm for the central pad, and 3.2 mm, 3.6 mm, and 3.2 mm for the side pads. A minimum clearance of 1 mm is indicated.				
Part Numbers	Operating Force	Height	Push Plate Color	Ground Terminal	Operating Life
EVQP0N02B	0.6 N	2.5 mm	Blue	Without	2000000 cycles
EVQP0P02B	0.6 N	2.5 mm	Blue	With	2000000 cycles
EVQP0Q02Q	1.0 N	2.5 mm	Gray	Without	1000000 cycles
EVQP0S02Q	1.0 N	2.5 mm	Gray	With	1000000 cycles

■ Dimensions in mm (not to scale)

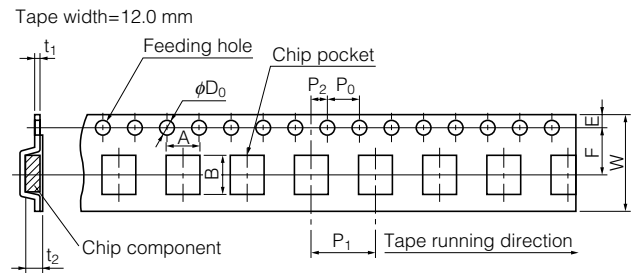
No. 2					
EVQQ2 Short push travel : 0.25 mm With J-bent terminals					
					
Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQQ2B01W	0.5 N	2.0 mm	White	Without	2000000 cycles
EVQQ2B02W	0.5 N	2.5 mm	White	Without	2000000 cycles
EVQQ2B03W	0.5 N	3.1 mm	White	Without	2000000 cycles
EVQQ2D01W	0.5 N	2.0 mm	White	With	2000000 cycles
EVQQ2D02W	0.5 N	2.5 mm	White	With	2000000 cycles
EVQQ2D03W	0.5 N	3.1 mm	White	With	2000000 cycles
EVQQ2F01W	1.0 N	2.0 mm	White	Without	1000000 cycles
EVQQ2F02W	1.0 N	2.5 mm	White	Without	1000000 cycles
EVQQ2F03W	1.0 N	3.1 mm	White	Without	1000000 cycles
EVQQ2H01W	1.0 N	2.0 mm	White	With	1000000 cycles
EVQQ2H02W	1.0 N	2.5 mm	White	With	1000000 cycles
EVQQ2H03W	1.0 N	3.1 mm	White	With	1000000 cycles
EVQQ2K01W	1.3 N	2.0 mm	White	Without	1000000 cycles
EVQQ2K02W	1.3 N	2.5 mm	White	Without	1000000 cycles
EVQQ2K03W	1.3 N	3.1 mm	White	Without	1000000 cycles
EVQQ2M01W	1.3 N	2.0 mm	White	With	1000000 cycles
EVQQ2M02W	1.3 N	2.5 mm	White	With	1000000 cycles
EVQQ2M03W	1.3 N	3.1 mm	White	With	1000000 cycles
EVQQ2P01W	1.6 N	2.0 mm	White	Without	1000000 cycles
EVQQ2P02W	1.6 N	2.5 mm	White	Without	1000000 cycles
EVQQ2P03W	1.6 N	3.1 mm	White	Without	1000000 cycles
EVQQ2S01W	1.6 N	2.0 mm	White	With	1000000 cycles
EVQQ2S02W	1.6 N	2.5 mm	White	With	1000000 cycles
EVQQ2S03W	1.6 N	3.1 mm	White	With	1000000 cycles
EVQQ2U01W	2.6 N	2.0 mm	White	Without	200000 cycles
EVQQ2U02W	2.6 N	2.5 mm	White	Without	200000 cycles
EVQQ2U03W	2.6 N	3.1 mm	White	Without	200000 cycles
EVQQ2W01W	2.6 N	2.0 mm	White	With	200000 cycles
EVQQ2W02W	2.6 N	2.5 mm	White	With	200000 cycles
EVQQ2W03W	2.6 N	3.1 mm	White	With	200000 cycles
EVQQ2Y01W	3.5 N	2.0 mm	White	Without	100000 cycles
EVQQ2Y02W	3.5 N	2.5 mm	White	Without	100000 cycles
EVQQ2Y03W	3.5 N	3.1 mm	White	Without	100000 cycles
EVQQ2201W	3.5 N	2.0 mm	White	With	100000 cycles
EVQQ2202W	3.5 N	2.5 mm	White	With	100000 cycles
EVQQ2203W	3.5 N	3.1 mm	White	With	100000 cycles

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■ Recommended Reflow Soldering Conditions



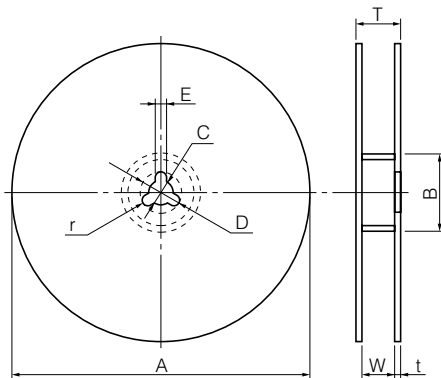
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P1	P2	P0	D0 Dia	t1	t2
EVQQ2	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	0.30±0.05	2.2±0.2
	2.5/3.1											3.2±0.2
EVQP0	2.5											2.8±0.2

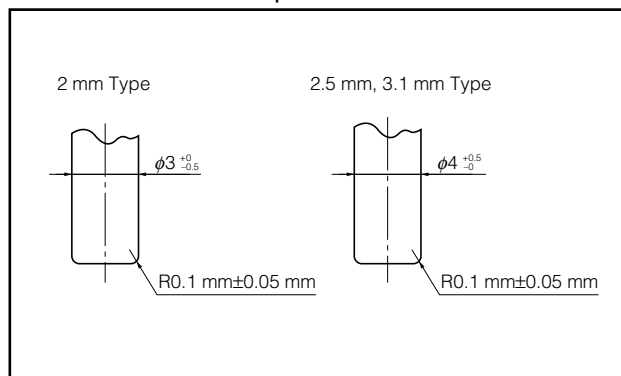
● Standard Reel Dimensions in mm (not to scale)



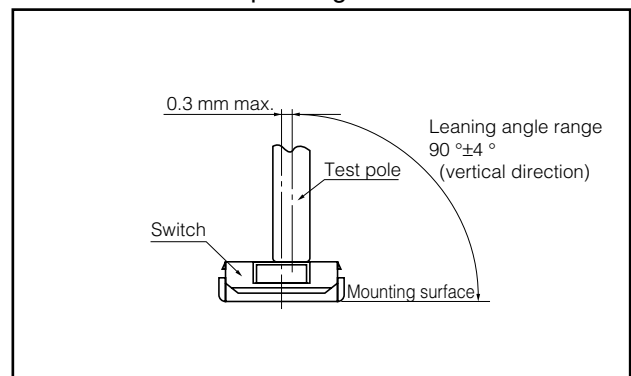
Item	A	B	C	D	E
Rate (mm)	$\phi 380.0 \pm 2.0$	$\phi 80.0 \pm 1.0$	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	2.0 ± 0.5

Item	W	T	t	r
Rate (mm)	13.5 ± 1.0	17.5 ± 1.0	—	—

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions



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