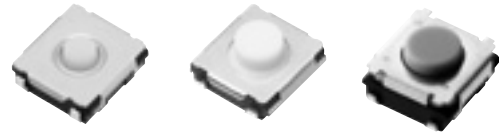


6 mm Square Thin Type SMD Light Touch Switches 6mm Square Middle Travel SMD Light Touch Switch

Type: **EVQP0**
EVQQ2
EVPBF



■ Features

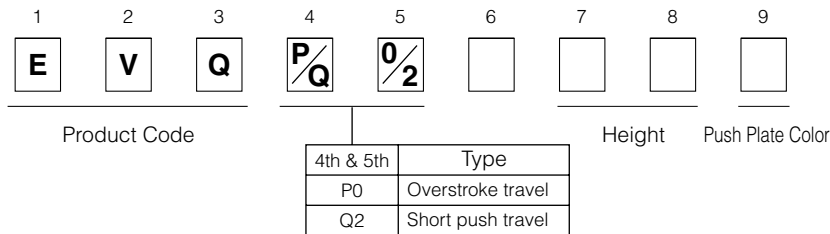
- External dimensions : 6.5 mm×6.0 mm, Height 1.8 mm (Excluding the push plate)
- External dimensions : 6.0 mm×6.0 mm, Height 2.5 mm (Excluding the push plate, Middle Travel)
- With or without ground terminal, height, operating force
- Overstroke travel
- Middlestroke travel type

■ Recommended Applications

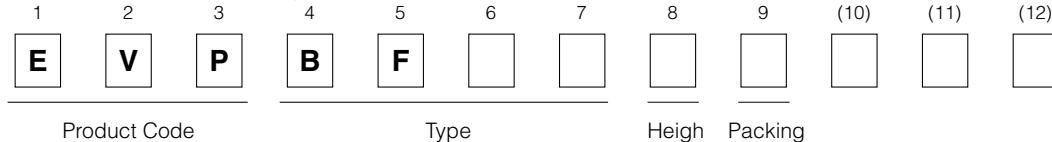
- Operating switches for other electronic equipment
- Operation switches for PC mouse
- Car audio systems
- Game

■ Explanation of Part Numbers

6 mm Square Thin Type SMD Light Touch Switches



6mm Square Middle Travel SMD Light Touch Switch



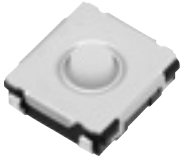
■ Specifications

Travel Type		Short Push Travel	Overstroke Travel	Middlestroke 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.		500 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	2.0 N
	Travel	0.25 mm (0.2 mm : 0.5N, 1.0N)	0.3 mm	0.25 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.	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=3.5mm 3000 pcs. Embossed Taping (Reel Pack)	
		H=2.5 mm, 3.1 mm 20000 pcs. Embossed Taping (Reel Pack)		
Quantity/Carton		H=2.0 mm 20000 pcs.	15000 pcs.	
		H=2.5 mm, 3.1 mm 10000 pcs.		

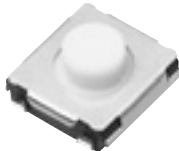
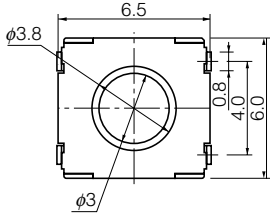
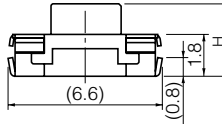
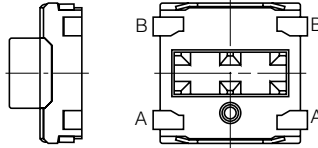
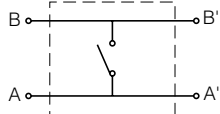
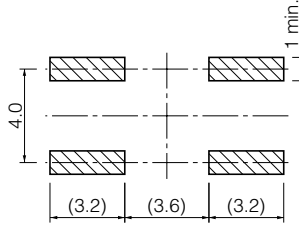
Note: Non washable

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

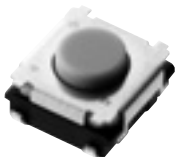
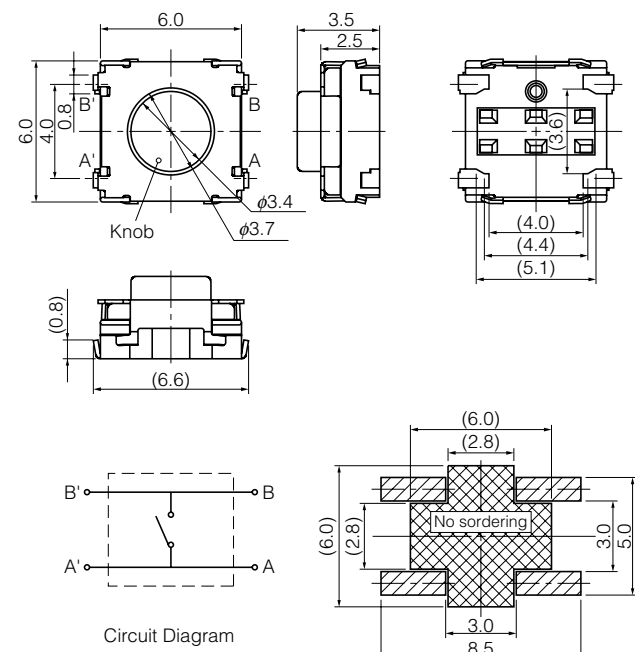
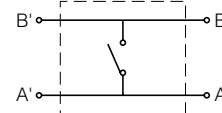
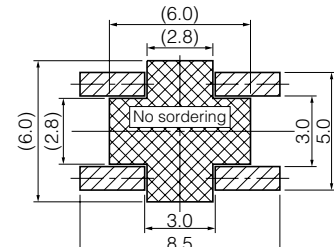





■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQP0</p> <p>Overstroke travel : 0.3 mm With J-bent terminals</p> 	<p>(General dimension tolerance : ± 0.2) () dimensions are reference dimensions.</p> <p>Circuit Diagram</p> <p>PWB land pattern for reference</p>				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Ground Terminal</p>	<p>Operating Life</p>
<p>EVQP0N02B</p>	<p>0.6 N</p>	<p>2.5 mm</p>	<p>Blue</p>	<p>Without</p>	<p>2000000 cycles</p>
<p>EVQP0P02B</p>	<p>0.6 N</p>	<p>2.5 mm</p>	<p>Blue</p>	<p>With</p>	<p>2000000 cycles</p>
<p>EVQP0Q02Q</p>	<p>1.0 N</p>	<p>2.5 mm</p>	<p>Gray</p>	<p>Without</p>	<p>1000000 cycles</p>
<p>EVQP0S02Q</p>	<p>1.0 N</p>	<p>2.5 mm</p>	<p>Gray</p>	<p>With</p>	<p>1000000 cycles</p>

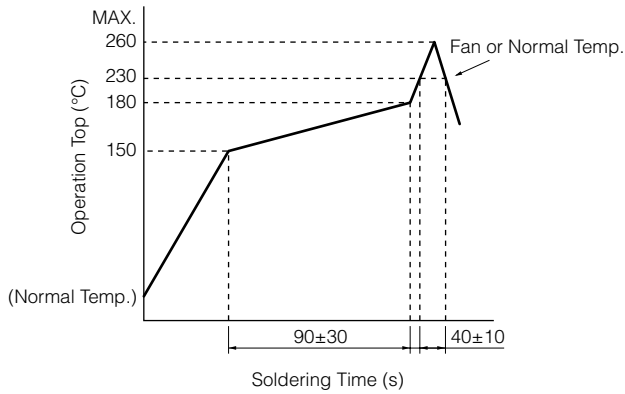
■ Dimensions in mm (not to scale)

No. 2						Height					
EVQQ2 Short travel 0.25 mm With J-bent terminals		(General dimension tolerance : ± 0.2) () dimensions are reference dimensions.				<table border="1"> <tr><td>H</td></tr> <tr><td>2.0±0.2</td></tr> <tr><td>2.5±0.2</td></tr> <tr><td>3.1±0.2</td></tr> </table>		H	2.0±0.2	2.5±0.2	3.1±0.2
		H									
2.0±0.2											
2.5±0.2											
3.1±0.2											
											
		 <p>Circuit Diagram</p>		 <p>PWB land pattern for reference</p>							
Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life						
EVQQ2B01W	0.5 N	2.0 mm	White	Without	200000 cycles						
EVQQ2B02W	0.5 N	2.5 mm	White	Without	200000 cycles						
EVQQ2B03W	0.5 N	3.1 mm	White	Without	200000 cycles						
EVQQ2D01W	0.5 N	2.0 mm	White	With	200000 cycles						
EVQQ2D02W	0.5 N	2.5 mm	White	With	200000 cycles						
EVQQ2D03W	0.5 N	3.1 mm	White	With	200000 cycles						
EVQQ2F01W	1.0 N	2.0 mm	White	Without	100000 cycles						
EVQQ2F02W	1.0 N	2.5 mm	White	Without	100000 cycles						
EVQQ2F03W	1.0 N	3.1 mm	White	Without	100000 cycles						
EVQQ2H01W	1.0 N	2.0 mm	White	With	100000 cycles						
EVQQ2H02W	1.0 N	2.5 mm	White	With	100000 cycles						
EVQQ2H03W	1.0 N	3.1 mm	White	With	100000 cycles						
EVQQ2K01W	1.3 N	2.0 mm	White	Without	100000 cycles						
EVQQ2K02W	1.3 N	2.5 mm	White	Without	100000 cycles						
EVQQ2K03W	1.3 N	3.1 mm	White	Without	100000 cycles						
EVQQ2M01W	1.3 N	2.0 mm	White	With	100000 cycles						
EVQQ2M02W	1.3 N	2.5 mm	White	With	100000 cycles						
EVQQ2M03W	1.3 N	3.1 mm	White	With	100000 cycles						
EVQQ2P01W	1.6 N	2.0 mm	White	Without	100000 cycles						
EVQQ2P02W	1.6 N	2.5 mm	White	Without	100000 cycles						
EVQQ2P03W	1.6 N	3.1 mm	White	Without	100000 cycles						
EVQQ2S01W	1.6 N	2.0 mm	White	With	100000 cycles						
EVQQ2S02W	1.6 N	2.5 mm	White	With	100000 cycles						
EVQQ2S03W	1.6 N	3.1 mm	White	With	100000 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						

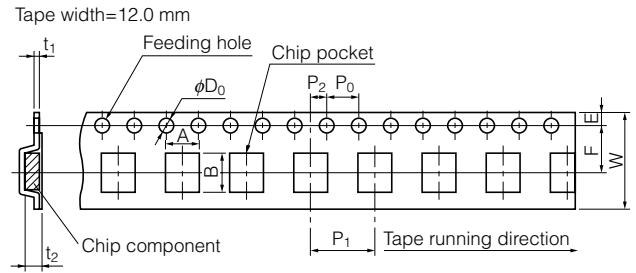
■ 形状寸法 (mm)

<p>No. 3</p> <p>EVPBF</p> <p>Middlestroke Travel 0.25 mm With J-bent terminals</p> 	<p>(General dimension tolerance : ± 0.2) () dimensions are reference dimensions.</p>  <p>Circuit Diagram</p>  <p>PWB land pattern for reference</p>  <p>  : Recommended land pattern area.  : No soldering area. </p> <ul style="list-style-type: none"> Any land pattern or via holes shall not be provided at  area. If it's necessary to design land pattern or via holes at  area, please apply resist to them to protect their metal part completely. If their metal parts are not protected completely, short circuit failure may occur by solder ball. Beside, there should be convexoconcave by designing additional pattern, it may cause switch tilt, influence on solder-ability or flux intrusion after reflow soldering. Therefore, please study any influence of additional land pattern or via holes at  area in advance. 				
Part Numbers	Operating Force	Height	Push Plate Color	Ground Terminal	Operating Life
EVPBFAC1A000	2.0 N	3.5 mm	Gray	Without	1000000 cycles

Recommended Reflow Soldering Conditions



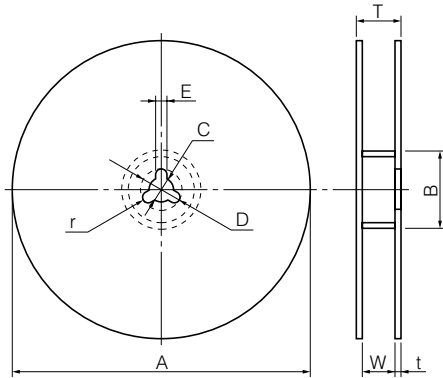
Embossed Carrier Taping



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}	0.30±0.05	2.2±0.2
	2.5/3.1											3.2±0.2
EVQP0	2.5											2.8±0.2
EVPBF	3.5											3.7±0.1

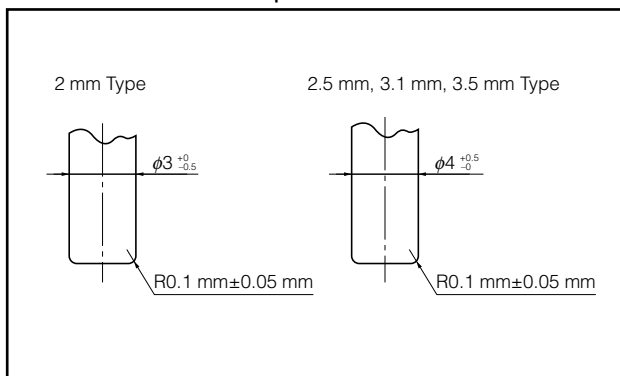
Standard Reel Dimensions in mm (not to scale)



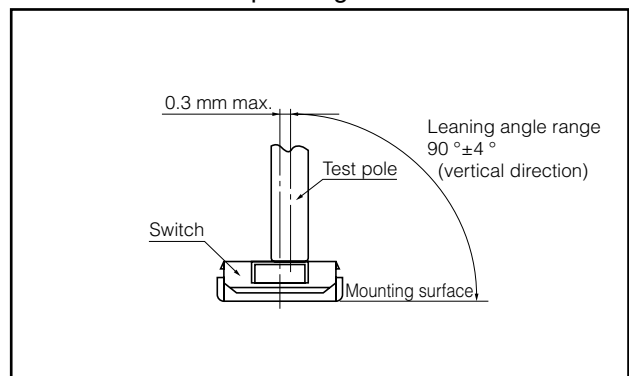
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5

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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