

6 mm Square Thin Type SMD Light Touch Switches

Type: **EVQP0**
EVQQ2



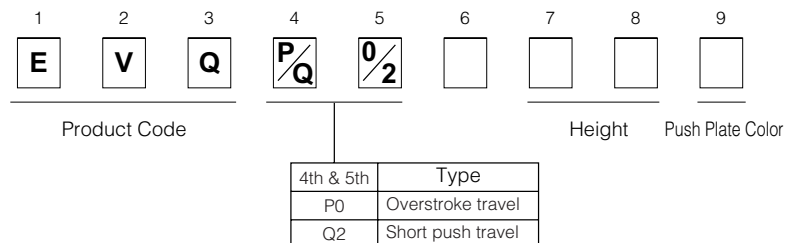
■ Features

- 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

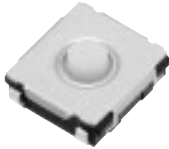
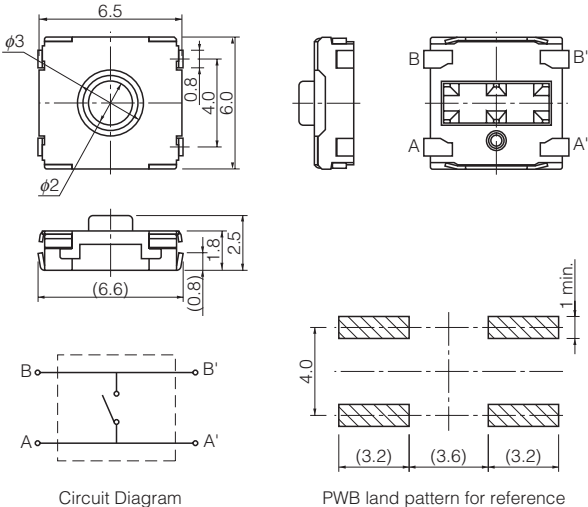
Type		Snap action/Push-on type SPST	
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	100 m Ω max.	
	Insulation Resistance	100 M Ω min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	10 ms max. (ON, OFF)	
Mechanical	Operating Force	EVQP0	0.6 N, 1.0 N
		EVQQ2	0.5 N, 1.0 N, 1.3 N, 1.6 N, 2.6 N, 3.5 N
	Travel	Short push travel 0.25 mm, Overstroke travel 0.35 mm	
Endurance	Operating Life	EVQP0	0.6 N : 2000000 cycles min. 1.0 N : 1000000 cycles min.
		EVQQ2	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.
Operating Temperature		-20 °C to +70 °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

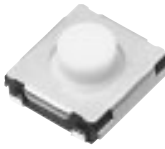
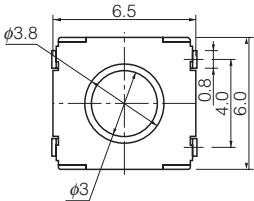
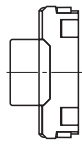
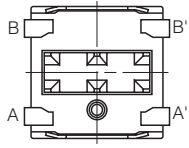
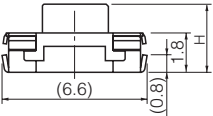
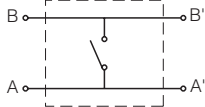
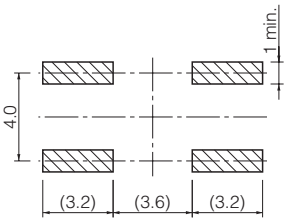
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Jun. 2008

■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>EVQP0</p> <p>Overstroke travel : 0.35 mm With J-bent terminals</p> 	 <p style="text-align: center;">Circuit Diagram</p> <p style="text-align: center;">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>

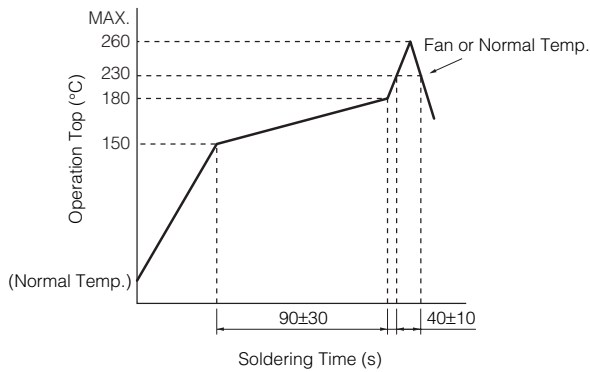
■ Dimensions in mm (not to scale)

<p style="text-align: center;">No. 2</p> <p>EVQQ2</p> <p>Short push travel : 0.25 mm With J-bent terminals</p> 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="text-align: right; margin-top: 10px;"> <table border="1" style="border-collapse: collapse;"> <thead> <tr> <th colspan="2">Height</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>2.0±0.2</td> </tr> <tr> <td></td> <td>2.5±0.2</td> </tr> <tr> <td></td> <td>3.1^{+0.3}_{-0.1}</td> </tr> </tbody> </table> </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="text-align: center; margin-top: 10px;">  <p>Circuit Diagram</p> </div> <div style="text-align: center; margin-top: 10px;">  <p>PWB land pattern for reference</p> </div>	Height		H	2.0±0.2		2.5±0.2		3.1 ^{+0.3} _{-0.1}
Height									
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	2.5±0.2								
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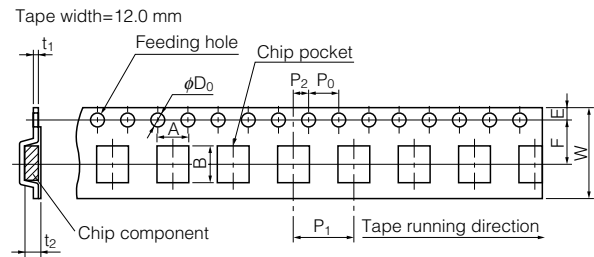
Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQQ2B01W	0.5 N	2.0 mm	White	Without	2000000 cycles
EVQQ2B02W	0.5 N	2.5 mm	White	Without	2000000 cycles
EVQQ2B03W	0.5 N	3.1 mm	White	Without	2000000 cycles
EVQQ2D01W	0.5 N	2.0 mm	White	With	2000000 cycles
EVQQ2D02W	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



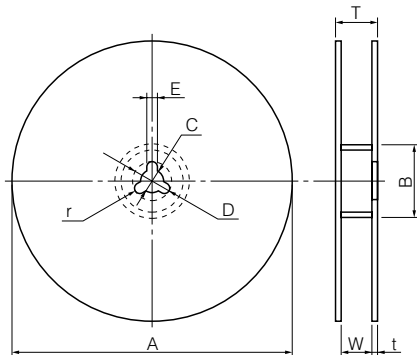
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia	t_1	t_2
EVQP0, EVQQ2	2.0	6.7±0.2	7.5±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

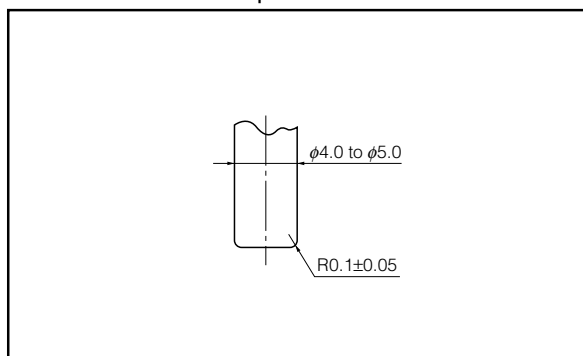
● Standard Reel Dimensions in mm (not to scale)



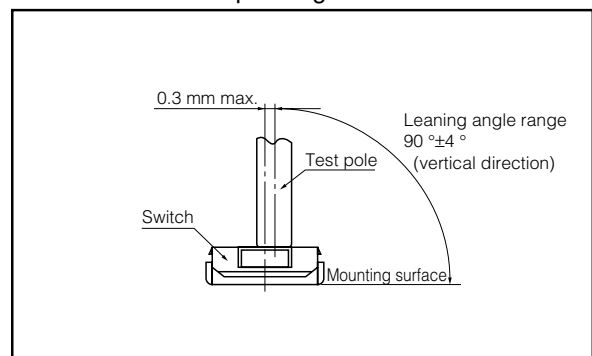
Item	A	B	C	D	E
Rate (mm)	$\phi 380.0 \pm 2.0$	$\phi 80.0 \pm 1.0$	$\phi 13.0 \pm 0.2$	$\phi 21.0 \pm 0.8$	2.0±0.5

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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