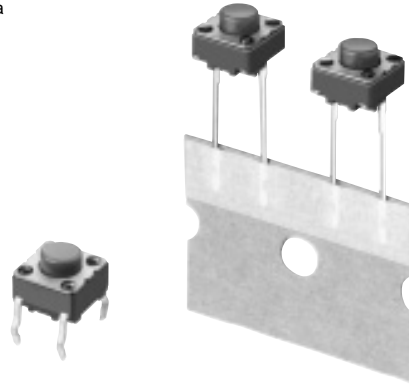


### 5N Type Light Touch Switches

Japan  
Malaysia  
China

Type: **EVQPA/EVQPB/EVQPF**  
**EVQ2/EVQPC**

Broad product range meets a variety of needs



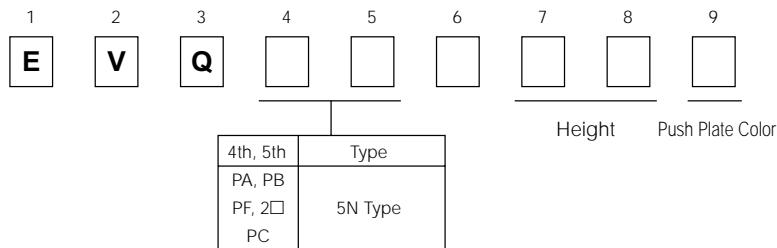
#### ■ Features

- 6.0 mm×6.0 mm square, body thickness 3.2 mm
- Travel 0.25 mm (clear click feeling)
- Wide selection with or without ground terminal, top-push or side-operation type with snap-in terminals available
- Wave soldering applicable

#### ■ Recommended Applications

- Operation button switches for audio/visual, OA, communication equipment, measurement instruments

#### ■ Explanation of Part Numbers



#### ■ Product Chart

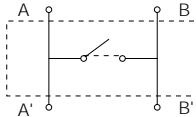
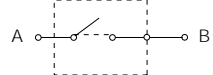
○ = In production

Operating Force	Positioning Pin	Ground Terminal	Top-push Type				Side-operation Type			
			4.3 mm	5.0 mm	7.0 mm	9.5 mm	3.15 mm	3.85 mm	5.85 mm	8.35 mm
1.0 N	Without positioning pin	With ground terminal	○	○	○	○	○	○	○	○
		Without ground terminal	○	○	○	○	—	—	—	—
1.3 N	Without positioning pin	With ground terminal	○	○	○	○	○	○	○	○
		Without ground terminal	○	○	○	○	—	—	—	—
1.6 N	Without positioning pin	With ground terminal	○	○	○	○	○	○	○	○
		Without ground terminal	○	○	○	○	—	—	—	—
2.6 N	Without positioning pin	With ground terminal	○	○	○	○	○	○	○	○
		Without ground terminal	○	○	○	○	—	—	—	—

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Sep. 2005

### ■ Specifications


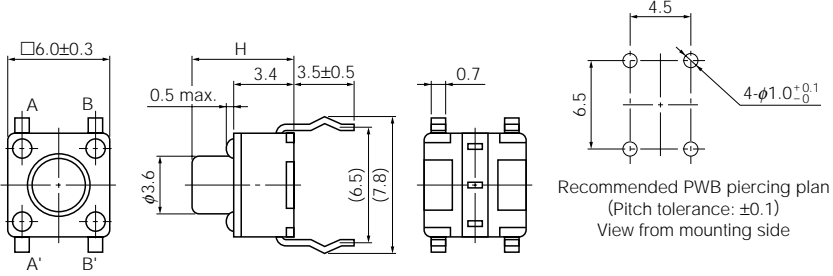
Type		Snap action/Push-on type SPST	
Electrical	Circuit Diagram	<p>Top-push</p> 	<p>Side-operation</p> 
	Rating	20 mA 15 Vdc max. (Resistiv load)	
	Contact Resistance	50 mΩ max.	
	Insulation Resistance	50 MΩ min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	3 ms max. (ON) 8 ms max. (OFF)	
Mechanical	Operating Force	1.0 N±0.4 N 1.3 N±0.4 N 1.6 N±0.5 N	2.6 N±0.6 N
	Travel	0.25 mm±0.10 mm	
Endurance	Operating Life	100000 cycles min.*	50000 cycles min.
	Operating Temperature	-20 °C to +70 °C (45 % to 85 % RH)	
	Storage Temperature	-40 °C to +85 °C (Bulk) -20 °C to +40 °C (Taping)	
Minimum Quantity/ Packing Unit	Top-push	500 pcs. Polyethylene Bag (Bulk)	
		1000 pcs. Radial Taping (Reel Pack)	
	Side-operation	500 pcs. Polyethylene Bag (Bulk)	
		700 pcs. Radial Taping (Reel Pack)	
Quantity/Carton	Top-push	10000 pcs. Polyethylene Bag (Bulk)	
		10000 pcs. Radial Taping (Reel Pack)	
	Side-operation	10000 pcs. Polyethylene Bag (Bulk)	
		7000 pcs. Radial Taping (Reel Pack)	

\*1 million cycles also available, consult our salesmen.

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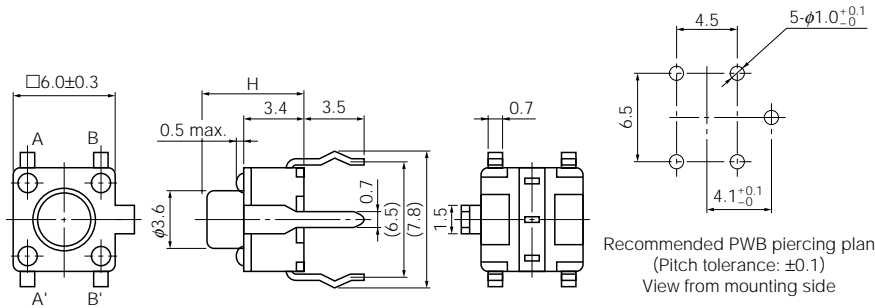
Dec. 2005

### ■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>Japan Malaysia China</p> <p><b>EVQPA</b></p> <p>(Bulk)</p> <p>Top-push Without ground terminal</p> 				
Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQPAC04M	1.0 N	4.3 mm	White	100000 cycles
EVQPAC05R	1.0 N	5.0 mm	Red	100000 cycles
EVQPAC07K	1.0 N	7.0 mm	Black	100000 cycles
EVQPAC09K	1.0 N	9.5 mm	Black	100000 cycles
EVQPAD04M	1.3 N	4.3 mm	White	100000 cycles
EVQPAD05R	1.3 N	5.0 mm	Red	100000 cycles
EVQPAD07K	1.3 N	7.0 mm	Black	100000 cycles
EVQPAD09K	1.3 N	9.5 mm	Black	100000 cycles
EVQPAE04M	1.6 N	4.3 mm	White	100000 cycles
EVQPAE05R	1.6 N	5.0 mm	Red	100000 cycles
EVQPAE07K	1.6 N	7.0 mm	Black	100000 cycles
EVQPAE09K	1.6 N	9.5 mm	Black	100000 cycles
EVQPAG04M	2.6 N	4.3 mm	White	50000 cycles
EVQPAG05R	2.6 N	5.0 mm	Red	50000 cycles
EVQPAG07K	2.6 N	7.0 mm	Black	50000 cycles
EVQPAG09K	2.6 N	9.5 mm	Black	50000 cycles


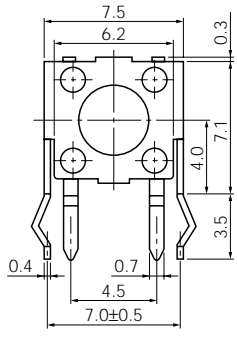
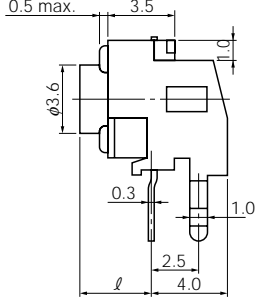
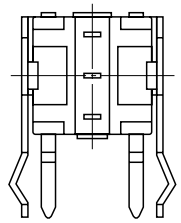
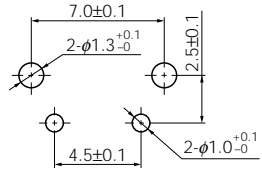
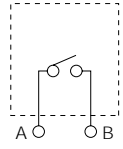
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### ■ Dimensions in mm (not to scale)

<p>No. 2</p> <p>Japan China</p> <p>EVQPB</p> <p>(Bulk)</p> <p>Top-push With ground terminal</p> 	 <p>Recommended PWB piercing plan (Pitch tolerance: ±0.1) View from mounting side</p>			
Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQPBC04M	1.0 N	4.3 mm	White	100000 cycles
EVQPBC05R	1.0 N	5.0 mm	Red	100000 cycles
EVQPBC07K	1.0 N	7.0 mm	Black	100000 cycles
EVQPBC09K	1.0 N	9.5 mm	Black	100000 cycles
EVQPBD04M	1.3 N	4.3 mm	White	100000 cycles
EVQPBD05R	1.3 N	5.0 mm	Red	100000 cycles
EVQPBD07K	1.3 N	7.0 mm	Black	100000 cycles
EVQPBD09K	1.3 N	9.5 mm	Black	100000 cycles
EVQPBE04M	1.6 N	4.3 mm	White	100000 cycles
EVQPBE05R	1.6 N	5.0 mm	Red	100000 cycles
EVQPBE07K	1.6 N	7.0 mm	Black	100000 cycles
EVQPBE09K	1.6 N	9.5 mm	Black	100000 cycles
EVQPBG04M	2.6 N	4.3 mm	White	50000 cycles
EVQPBG05R	2.6 N	5.0 mm	Red	50000 cycles
EVQPBG07K	2.6 N	7.0 mm	Black	50000 cycles
EVQPBG09K	2.6 N	9.5 mm	Black	50000 cycles

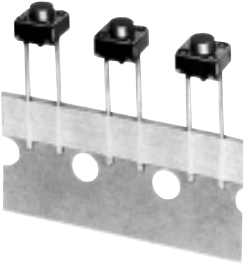
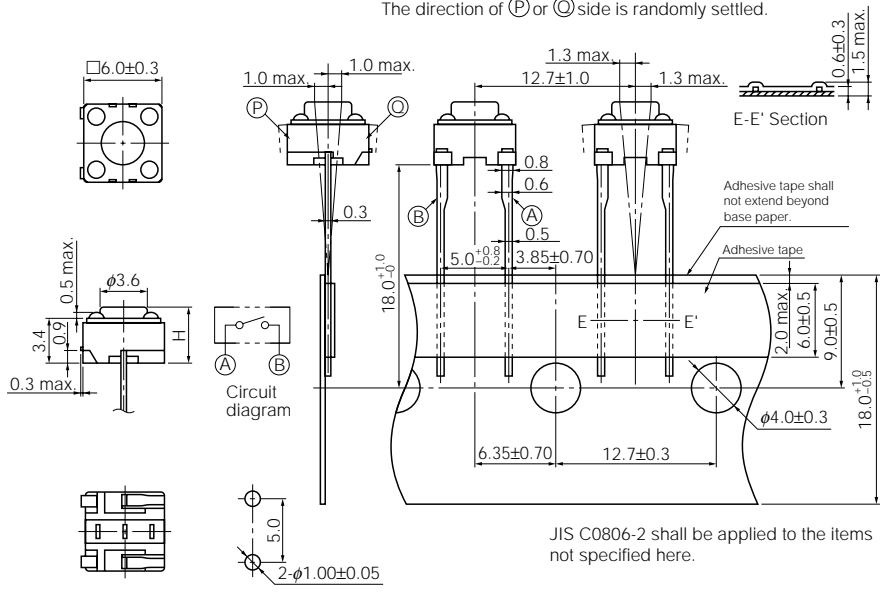
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■ Dimensions in mm (not to scale)

<p>No. 3</p> <p>Japan</p> <p><b>EVQPF</b></p> <p>(Bulk)</p> <p>Side-operation Without ground terminal</p> 	    <p>Recommended PWB piercing plan (PWB thickness=1.6 mm) View from mounting side</p>  <p>Circuit diagram</p>																																																																																					
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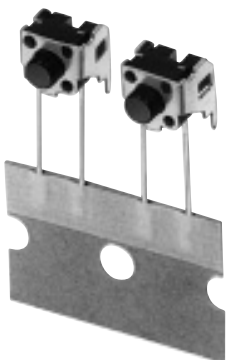
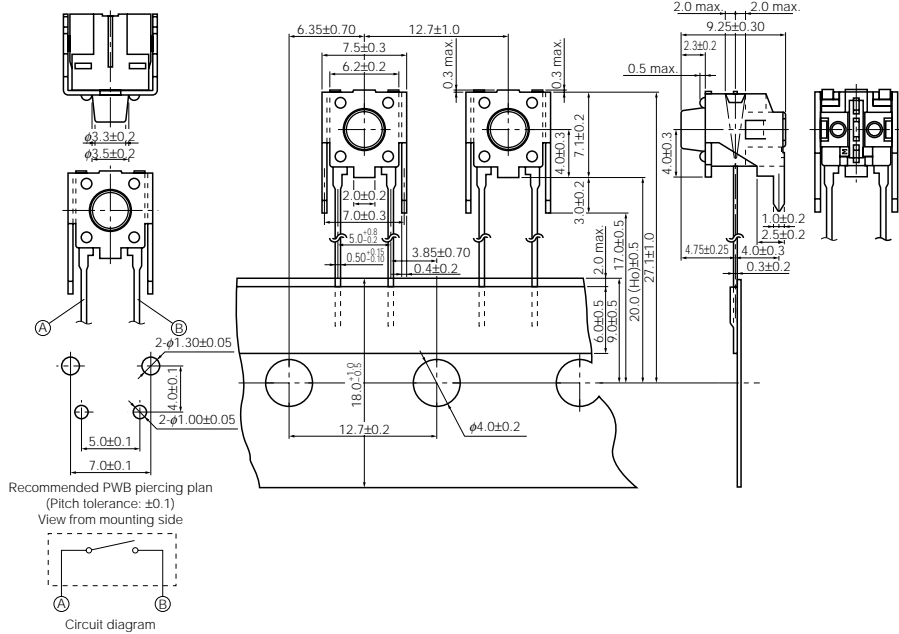
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### ■ Dimensions in mm (not to scale)

<p>No. 4</p> <p>Japan Malaysia China</p> <p><b>EVQ2</b></p> <p>(Radial Taping)</p> <p>Top-push With ground terminal</p> <p>2-terminals type Without ground terminal</p> 	<p style="text-align: center;">The direction of ⊕ or ⊙ side is randomly settled.</p>  <p style="text-align: center;">JIS C0806-2 shall be applied to the items not specified here.</p> <p style="text-align: center;">Recommended PWB piercing plan (Pitch tolerance: ±0.1) View from mounting side</p>			
Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQ21304M	1.0 N	4.3 mm	White	100000 cycles
EVQ21305R	1.0 N	5.0 mm	Red	100000 cycles
EVQ21307K	1.0 N	7.0 mm	Black	100000 cycles
EVQ21309K	1.0 N	9.5 mm	Black	100000 cycles
EVQ21404M	1.3 N	4.3 mm	White	100000 cycles
EVQ21405R	1.3 N	5.0 mm	Red	100000 cycles
EVQ21407K	1.3 N	7.0 mm	Black	100000 cycles
EVQ21409K	1.3 N	9.5 mm	Black	100000 cycles
EVQ21504M	1.6 N	4.3 mm	White	100000 cycles
EVQ21505R	1.6 N	5.0 mm	Red	100000 cycles
EVQ21507K	1.6 N	7.0 mm	Black	100000 cycles
EVQ21509K	1.6 N	9.5 mm	Black	100000 cycles
EVQ22704M	2.6 N	4.3 mm	White	50000 cycles
EVQ22705R	2.6 N	5.0 mm	Red	50000 cycles
EVQ22707K	2.6 N	7.0 mm	Black	50000 cycles
EVQ22709K	2.6 N	9.5 mm	Black	50000 cycles

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■ Dimensions in mm (not to scale)

<p>No. 5</p> <p>Japan China</p> <p><b>EVQPC</b></p> <p>(Radial Taping)</p> <p>Side-operation Without ground terminal</p>	  <p>Recommended PWB piercing plan (Pitch tolerance: <math>\pm 0.1</math>) View from mounting side</p> <p>Circuit diagram</p>																																																															
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