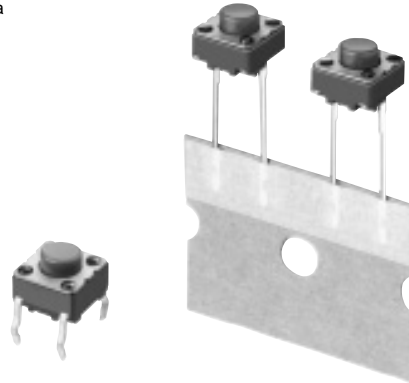


5N Type Light Touch Switches

Japan
Malaysia
China

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

Broad product range meets a variety of needs



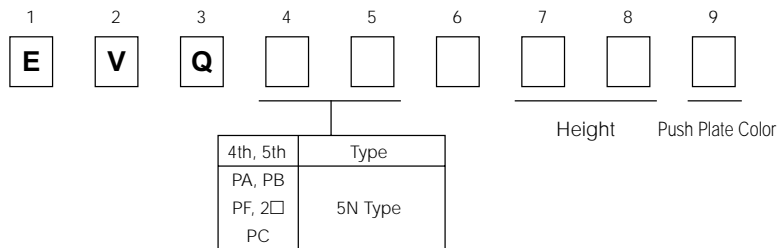
■ Features

- 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

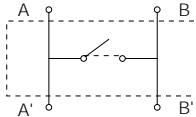
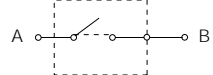
○ = In production

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


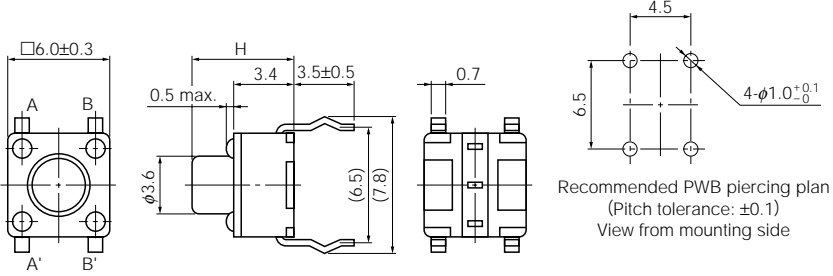
Type		Snap action/Push-on type SPST	
Electrical	Circuit Diagram	<p>Top-push</p> 	<p>Side-operation</p> 
	Rating	20 mA 15 Vdc max. (Resistiv load)	
	Contact Resistance	50 mΩ max.	
	Insulation Resistance	50 MΩ min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	3 ms max. (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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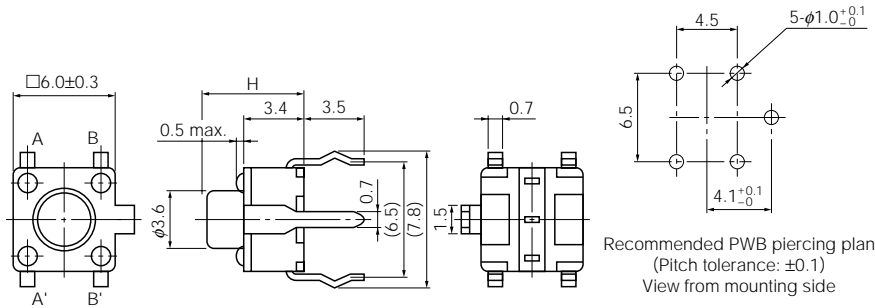
Dec. 2005

■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>Japan Malaysia China</p> <p>EVQPA</p> <p>(Bulk)</p> <p>Top-push Without ground terminal</p> 				
<p>Part Numbers</p>	<p>Operating Force</p>	<p>H=Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
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


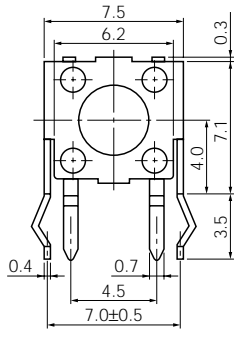
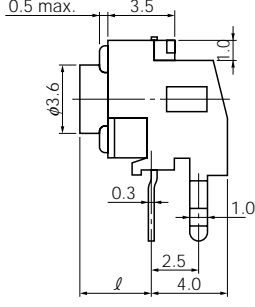
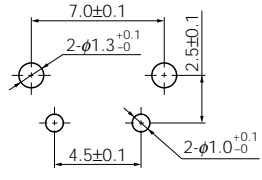
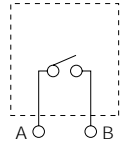
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■ Dimensions in mm (not to scale)

<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>																																																																																								
<table border="1"> <thead> <tr> <th>Part Numbers</th> <th>Operating Force</th> <th>H=Height</th> <th>Push Plate Color</th> <th>Operating Life</th> </tr> </thead> <tbody> <tr><td>EVQPBC04M</td><td>1.0 N</td><td>4.3 mm</td><td>White</td><td>100000 cycles</td></tr> <tr><td>EVQPBC05R</td><td>1.0 N</td><td>5.0 mm</td><td>Red</td><td>100000 cycles</td></tr> <tr><td>EVQPBC07K</td><td>1.0 N</td><td>7.0 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBC09K</td><td>1.0 N</td><td>9.5 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBD04M</td><td>1.3 N</td><td>4.3 mm</td><td>White</td><td>100000 cycles</td></tr> <tr><td>EVQPBD05R</td><td>1.3 N</td><td>5.0 mm</td><td>Red</td><td>100000 cycles</td></tr> <tr><td>EVQPBD07K</td><td>1.3 N</td><td>7.0 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBD09K</td><td>1.3 N</td><td>9.5 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBE04M</td><td>1.6 N</td><td>4.3 mm</td><td>White</td><td>100000 cycles</td></tr> <tr><td>EVQPBE05R</td><td>1.6 N</td><td>5.0 mm</td><td>Red</td><td>100000 cycles</td></tr> <tr><td>EVQPBE07K</td><td>1.6 N</td><td>7.0 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBE09K</td><td>1.6 N</td><td>9.5 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr><td>EVQPBG04M</td><td>2.6 N</td><td>4.3 mm</td><td>White</td><td>50000 cycles</td></tr> <tr><td>EVQPBG05R</td><td>2.6 N</td><td>5.0 mm</td><td>Red</td><td>50000 cycles</td></tr> <tr><td>EVQPBG07K</td><td>2.6 N</td><td>7.0 mm</td><td>Black</td><td>50000 cycles</td></tr> <tr><td>EVQPBG09K</td><td>2.6 N</td><td>9.5 mm</td><td>Black</td><td>50000 cycles</td></tr> </tbody> </table>	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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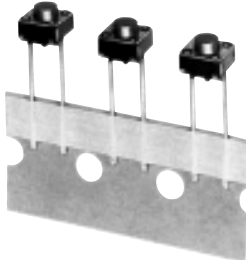
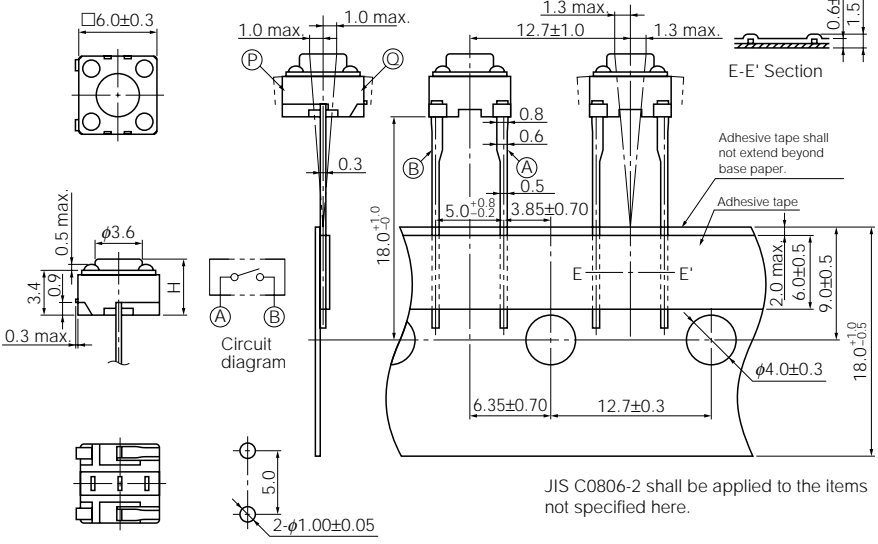
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■ Dimensions in mm (not to scale)

<p>No. 3</p> <p>Japan</p> <p>EVQPF</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>			
Part Numbers	Operating Force	ℓ = Push Plate Place	Push Plate Color	Operating Life
EVQPF003M	1.0 N	3.15 mm	White	100000 cycles
EVQPF004R	1.0 N	3.85 mm	Red	100000 cycles
EVQPF006K	1.0 N	5.85 mm	Black	100000 cycles
EVQPF008K	1.0 N	8.35 mm	Black	100000 cycles
EVQPF103M	1.3 N	3.15 mm	White	100000 cycles
EVQPF104R	1.3 N	3.85 mm	Red	100000 cycles
EVQPF106K	1.3 N	5.85 mm	Black	100000 cycles
EVQPF108K	1.3 N	8.35 mm	Black	100000 cycles
EVQPF203M	1.6 N	3.15 mm	White	100000 cycles
EVQPF204R	1.6 N	3.85 mm	Red	100000 cycles
EVQPF206K	1.6 N	5.85 mm	Black	100000 cycles
EVQPF208K	1.6 N	8.35 mm	Black	100000 cycles
EVQPF303M	2.6 N	3.15 mm	White	50000 cycles
EVQPF304R	2.6 N	3.85 mm	Red	50000 cycles
EVQPF306K	2.6 N	5.85 mm	Black	50000 cycles
EVQPF308K	2.6 N	8.35 mm	Black	50000 cycles

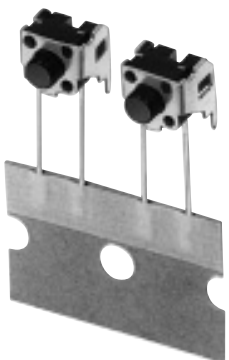
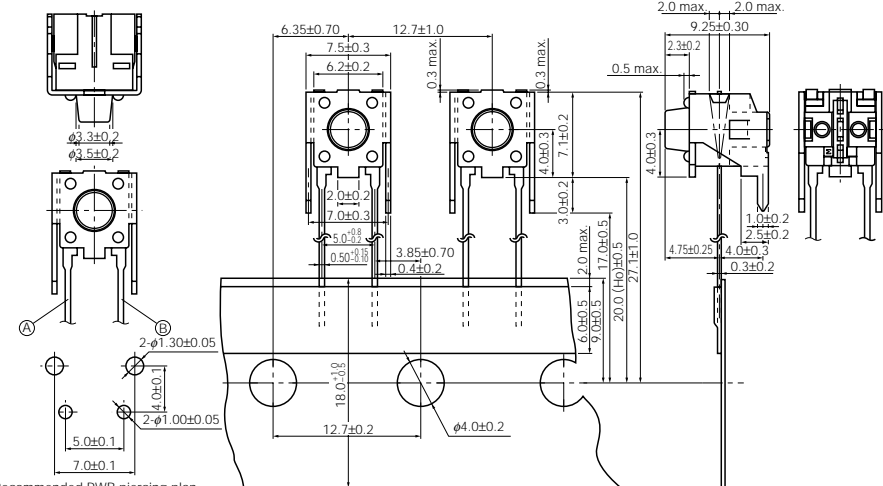
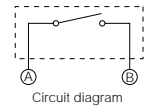
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<p>No. 4</p> <p>Japan Malaysia China</p> <p>EVQ2</p> <p>(Radial Taping)</p> <p>Top-push With ground terminal</p> <p>2-terminals type Without ground terminal</p> 	<p>The direction of (P) or (O) side is randomly settled.</p>  <p>Adhesive tape shall not extend beyond base paper.</p> <p>JIS C0806-2 shall be applied to the items not specified here.</p> <p>Recommended PWB piercing plan (Pitch tolerance: ± 0.1) View from mounting side</p>																																																																																								
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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																																																																																					
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EVQ22704M	2.6 N	4.3 mm	White	50000 cycles																																																																																					
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EVQ22707K	2.6 N	7.0 mm	Black	50000 cycles																																																																																					
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■ Dimensions in mm (not to scale)

<p>No. 5</p> <p>Japan China</p> <p>EVQPC (Radial Taping)</p> <p>Side-operation Without ground terminal</p>	  <p>Recommended PWB piercing plan (Pitch tolerance: ±0.1) View from mounting side</p>  <p>Circuit diagram</p>
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Part Numbers	Operating Force	Push Plate Place	Push Plate Color	Operating Life	Insert Machine	H ₀ Dimension
EVQPC005K	1.0 N	4.75 mm	Black	100000 cycles	Panasert	20 mm
EVQPC105K	1.3 N	4.75 mm	Black	100000 cycles	Panasert	20 mm
EVQPC205K	1.6 N	4.75 mm	Black	100000 cycles	Panasert	20 mm
EVQPC305K	2.6 N	4.75 mm	Black	50000 cycles	Panasert	20 mm
EVQPC405K	1.0 N	4.75 mm	Black	100000 cycles	Avisert	21 mm
EVQPCP05K	1.3 N	4.75 mm	Black	100000 cycles	Avisert	21 mm
EVQPC605K	1.6 N	4.75 mm	Black	100000 cycles	Avisert	21 mm
EVQPC705K	2.6 N	4.75 mm	Black	50000 cycles	Avisert	21 mm

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