

5N Type Light Touch Switches

Type: **EVQPA/EVQPB**



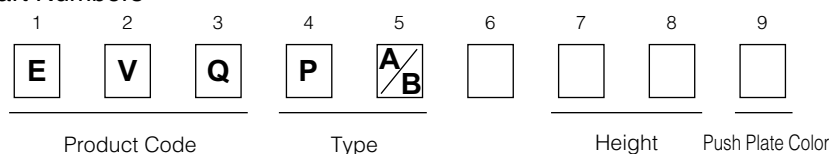
■ Features

- Wealth of product types: With or without a ground terminal, vertical type, snap-in terminals, etc.
- Can be automatically dip-soldered: Integral molding of the terminals and main body prevents the escape of flux.

■ Recommended Applications

- Operating switches for other electronic equipment

■ Explanation of Part Numbers



■ Product Chart

○=In production

Operating Force	Positioning Pin	Ground Terminal	Height			
			4.3 mm	5.0 mm	7.0 mm	9.5 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	○	○	○	○

■ Specifications

Type		Snap action/Push-on type SPST	
Electrical	Circuit Diagram		
	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistiv load)	
	Contact Resistance	50 m Ω max.	
	Insulation Resistance	50 M Ω 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 $\pm$ 0.4 N 1.3 N $\pm$ 0.4 N 1.6 N $\pm$ 0.5 N	2.6 N $\pm$ 0.6 N
	Travel	0.25 mm $\pm$ 0.10 mm	
Endurance	Operating Life	100000 cycles min.*	50000 cycles min.
Operating Temperature		-20 $^{\circ}$ C to +70 $^{\circ}$ C	
Storage Temperature		-40 $^{\circ}$ C to +85 $^{\circ}$ C (Bulk)	
Minimum Quantity/ Packing Unit	Top-push	500 pcs. Polyethylene Bag (Bulk)	
Quantity/Cartron	Top-push	10000 pcs.	

*1 million cycles also available, consult our salesmen.

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.

00 Sep. 2010

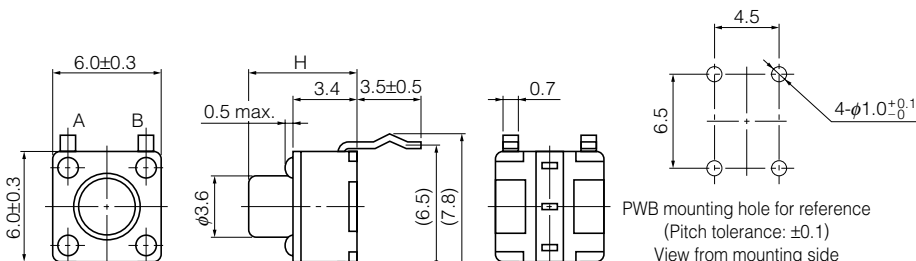
■ Dimensions in mm (not to scale)

No. 1

EVQPA

Without ground terminal





Technical drawings of the EVQPA component showing dimensions and mounting details:

- Top View:** Square footprint with side dimensions of 6.0 ± 0.3 . Terminal positions are labeled A, B, A', and B'.
- Side View:** Shows the profile of the component. Key dimensions include a total height H , a base width of 3.4 , a terminal width of 3.5 ± 0.5 , and a mounting hole offset of 0.5 max. . The base has a diameter of $\phi 3.6$. The overall width is 6.5 (nominal) or 7.8 (maximum).
- Front View:** Shows the terminal width as 0.7 .
- Mounting Side View:** Shows a 4-hole PWB mounting pattern with a pitch of 4.5 and a total width of 6.5 . The hole diameter is $4 \times \phi 1.0^{+0.1}_{-0}$. The text specifies "PWB mounting hole for reference (Pitch tolerance: ± 0.1) View from mounting side".

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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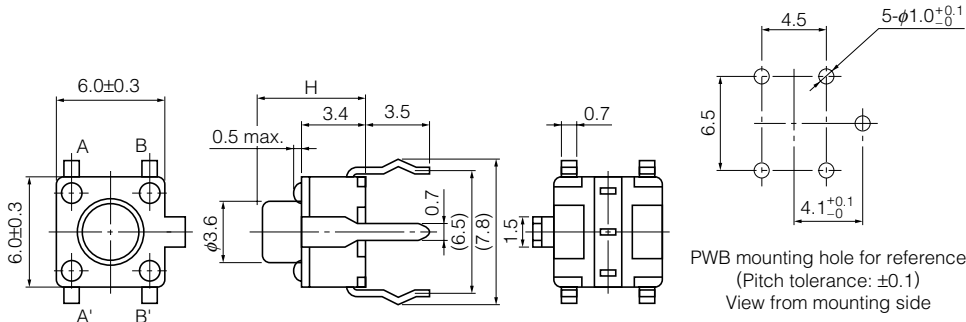
■ Dimensions in mm (not to scale)

No. 2

EVQPB

With ground terminal





Technical drawings of the EVQPB light touch switch. The drawings include a top view showing a square footprint with dimensions 6.0±0.3 mm by 6.0±0.3 mm, and a side view showing the height H and other dimensions. A detail view shows the PWB mounting hole for reference with a pitch tolerance of ±0.1 mm.

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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