



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3.5 mm×2.9 mm Side-operational SMD Light Touch Switches

Type: **EVQP7/EVQP3/EVQ9P7**



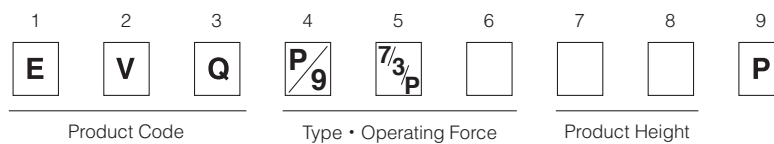
■ Features

- External dimensions : 3.5 mm×2.9 mm, Height 1.35 mm
- A wide range of terminal type : L-shape, J-bent, Straight
- High mount ability
- Push plate strength enhanced type

■ Recommended Applications

- Operation switches for portable electronic equipment (Mobile phones, Digital still cameras, Camcorders, Portable audio players, etc.)

■ Explanation of Part Numbers


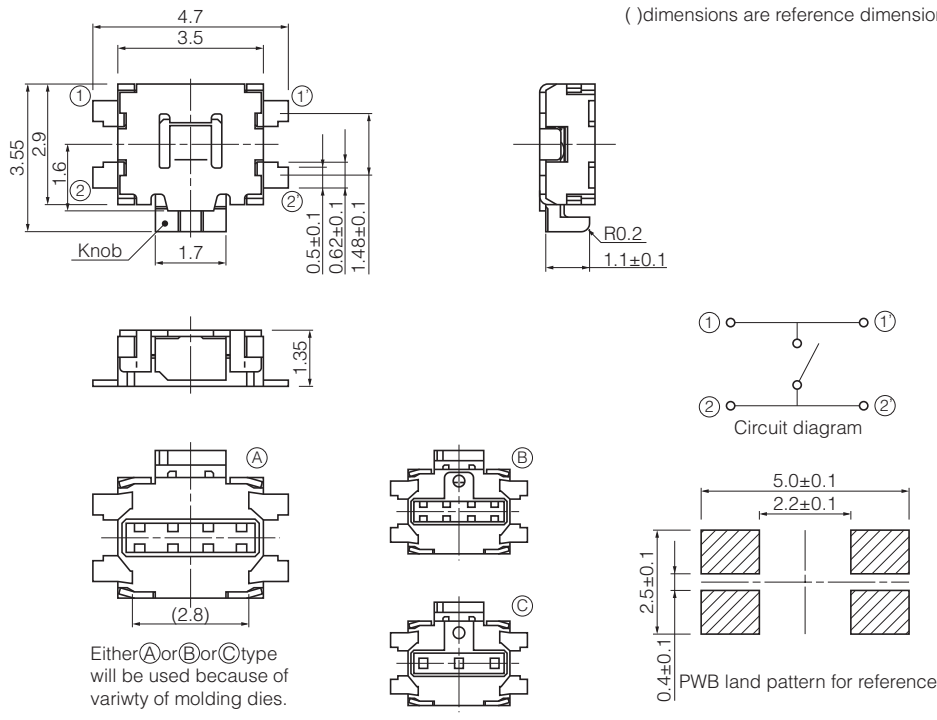

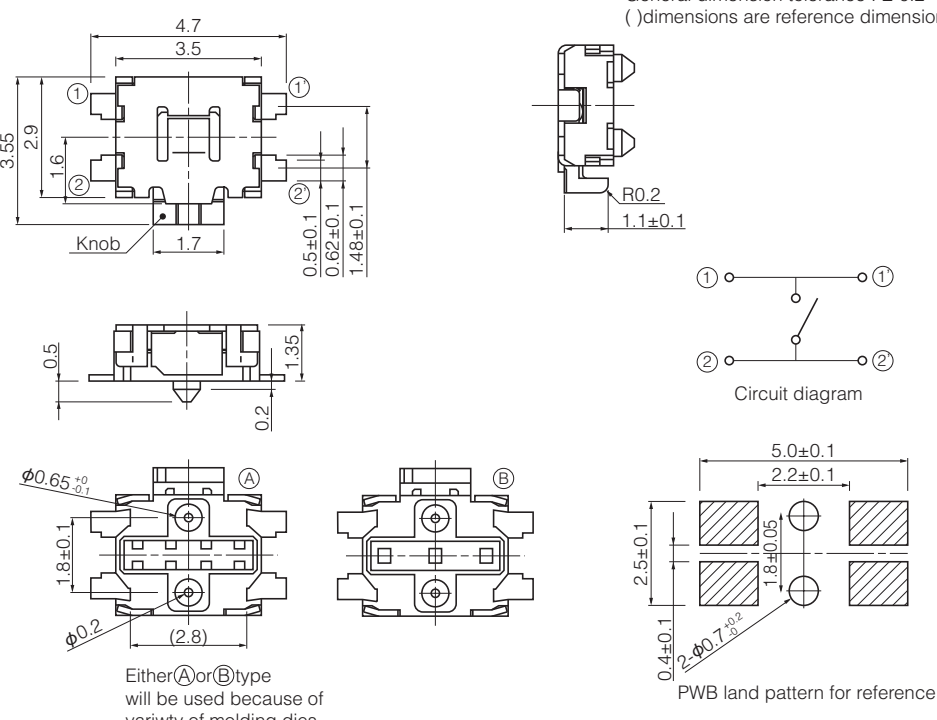


■ Specifications

Type		Snap action / Push-on type SPST
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)
	Contact Resistance	500 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 V DC)
	Dielectric Withstanding Voltage	250 V AC for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N, 2.2 N
	Push Travel	0.2 mm
	Push Strength	30 N (1 minute)
Endurance	Operating Life	100,000 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		5,000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25,000 pcs.

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)

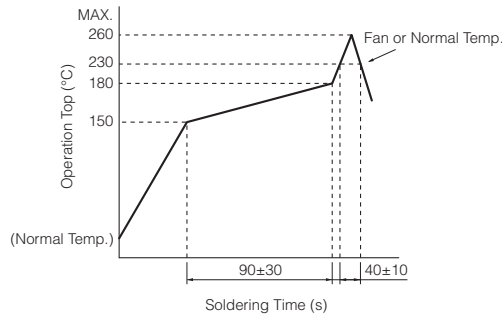
<p>No. 1</p> <p>EVQP7A EVQP7J</p> <p>(Embossed Taping)</p> <p>With straight terminals Without boss</p> 	<p>General dimension tolerance : ± 0.2 () dimensions are reference dimensions.</p>  <p>Either (A) or (B) or (C) type will be used because of variety of molding dies.</p>			
<p>Part Numbers</p> <p>EVQP7A01P</p> <p>EVQP7J01P</p>	<p>Operating Force</p> <p>2.2 N</p> <p>1.6 N</p>	<p>Height</p> <p>1.35 mm</p> <p>1.35 mm</p>	<p>Push Plate Color</p> <p>Black</p> <p>Black</p>	<p>Operating Life</p> <p>100,000 cycles</p> <p>100,000 cycles</p>
<p>No. 2</p> <p>EVQP7C EVQP7L</p> <p>(Embossed Taping)</p> <p>With straight terminals With boss</p> 	<p>General dimension tolerance : ± 0.2 () dimensions are reference dimensions.</p>  <p>Either (A) or (B) type will be used because of variety of molding dies.</p>			
<p>Part Numbers</p> <p>EVQP7C01P</p> <p>EVQP7L01P</p>	<p>Operating Force</p> <p>2.2 N</p> <p>1.6 N</p>	<p>Height</p> <p>1.35 mm</p> <p>1.35 mm</p>	<p>Push Plate Color</p> <p>Black</p> <p>Black</p>	<p>Operating Life</p> <p>100,000 cycles</p> <p>100,000 cycles</p>

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■ Dimensions in mm (not to scale)

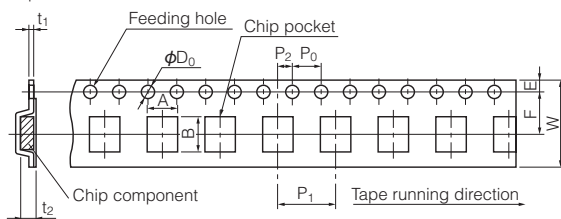
<p>No. 5</p> <p>EVQP3 EVQ9P</p> <p>(Embossed Taping)</p> <p>With L-shape terminals Without boss</p>	<p>Either (A) or (B) or (C) type will be used because of variety of molding dies.</p> <p>Circuit diagram</p> <p>PWB land pattern for reference</p>	<p>General dimension tolerance : ± 0.2 () dimensions are reference dimensions.</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Part Numbers</th> <th style="width: 25%;">Operating Force</th> <th style="width: 25%;">Height</th> <th style="width: 25%;">Push Plate Color</th> <th style="width: 25%;">Operating Life</th> </tr> <tr> <td>EVQP3401P</td> <td>2.2 N</td> <td>1.35 mm</td> <td>Black</td> <td>100,000 cycles</td> </tr> <tr> <td>EVQ9P701P</td> <td>1.6 N</td> <td>1.35 mm</td> <td>Black</td> <td>100,000 cycles</td> </tr> </table>	Part Numbers	Operating Force	Height	Push Plate Color	Operating Life	EVQP3401P	2.2 N	1.35 mm	Black	100,000 cycles	EVQ9P701P	1.6 N	1.35 mm	Black	100,000 cycles		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life													
EVQP3401P	2.2 N	1.35 mm	Black	100,000 cycles													
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■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping

Tape width=12.0 mm



Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
 Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
 Joint of carrier tape : One joint per one reel may exist.

● Straight terminals, L-shape terminals type

Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3 EVQ9P7	1.35	5.2±0.2	4.5±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} _{-0.1}	0.3±0.1	1.5±0.2

● J-bent type

Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQP7, EVQP3	1.35	4.5±0.2	4.5±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} _{-0.1}	0.3±0.1	1.5±0.2

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