

2.6 mm×1.6 mm SMD Light Touch Switches

Type: **EVPBB**



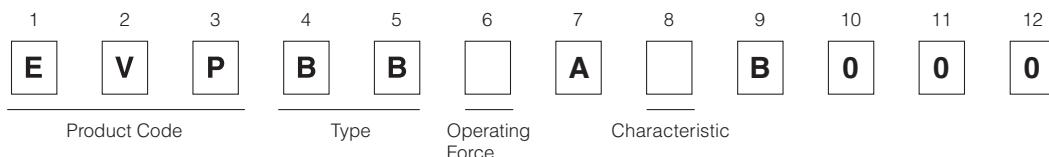
■ Features

- External dimensions: 2.6 mm×1.6 mm,
Height 0.50 mm, 0.53 mm, 0.55 mm
- High operability
Equipped with an actuator (push plate)
- IP67

■ Recommended Applications

- Operation switches for Smartphone, Wearable devices
(Smartwatch, Headset, Hearing aid)

■ Explanation of Part Numbers



■ Specifications

Type	Snap action/Push-on type SPST					
Electrical	Rating	10 µA 2 V DC to 20 mA 15 V DC (Resistive load)				
	Contact Resistance	500 mΩ max.				
	Insulation Resistance	50 MΩ min. (at 100 V DC)				
	Dielectric Withstanding Voltage	250 V AC for 1 minute				
	Bouncing	10 ms max. (ON, OFF)				
Mechanical	Operating Force	0.7 N	1.0 N	1.6 N, 2.4 N		
	Travel	0.08 mm	0.08 mm	0.11 mm		
Endurance	Operating Life	200,000 cycles min.	500,000 cycles min.			
IP67(*1)	IP6x (Dust resistance)	Dust : Talc (Type4) 8 h				
	IPx7 (Water resistance)	Immersion depth : 1m 30min.				
Operating Temperature		-40 °C to +85 °C				
Storage Temperature		-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)				
Minimum Quantity/Packing Unit		10,000 pcs. Embossed Taping (Reel Pack)				
Quantity/Carton		50,000 pcs.				

Note: Non washable

(*1) IP67 : Switch shall not be operated during test.

Water or dust ingress shall be limited enough to prevent deleterious effect to the switch function.

However, IP67 shall be guaranteed under single product state,

then there is a possibility that IP67 performance become impaired depending on your mounting condition or usage.

So, please ask us in advance, if the switch is applied to important usage for water and dust resistant.

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)

EVPBB
(Embossed Taping)

General dimension tolerance : ± 0.05
() dimensions are reference dimensions.

Actuator cross section (Section C-C)

Circuit diagram

Stencil mask plan

Land pattern plan

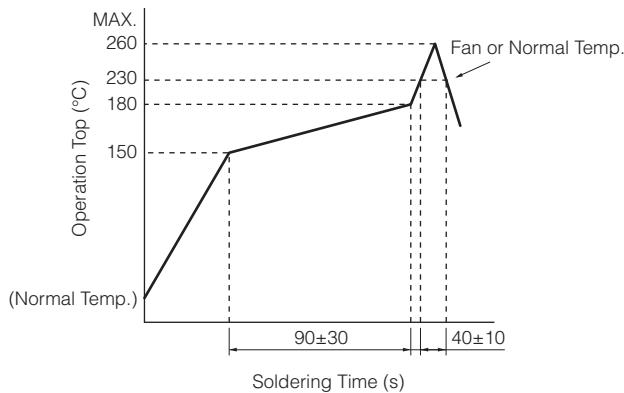
Soldering thickness $t=0.08\pm 0.01$

- * Soldering failure may occur depending on applied solder amount, so, please consider to use our recommended stencil and land pattern design.
- : Recommended land pattern area
- XXXX : No soldering area
- Any land pattern or via holes shall not be provided at XXXX area.
- If it's necessary to design land pattern or via holes at XXXX area, please apply resist to them to protect their metal part completely.
- If their metal parts are not protected completely, short circuit failure may occur by solder ball.
- Besides, there should be convexconcave by designing additional pattern, it may cause switch tilt, influence on solder-ability or flux intrusion after reflow soldering.
- Therefore, please study any influence of additional land pattern or via holes at XXXX area in advance.

Part Numbers	Operating Force	H=Height	Operating Life
EVPBB0AAB000	0.7 N	0.50 mm	200,000 cycles
EVPBB1AAB000	1.0 N	0.50 mm	500,000 cycles
EVPBB2A9B000	1.6 N	0.53 mm	500,000 cycles
EVPBB4A9B000	2.4 N	0.55 mm	500,000 cycles

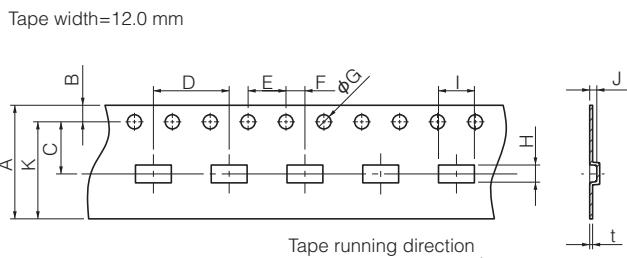
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■ Recommended Reflow Soldering Conditions



* Reflow temperature may vary by location even in the same reflow condition.
Please check the reflow temperature at terminals and at the top of a switch
to make sure the both temperatures are within the specification.
If even one of them is out of the specifications, please adjust.

● Embossed Carrier Taping



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.

Unit: mm

Part No.	Height	A	B	C	D	E	F	G	H	I	J	K	t
EVPBB	0.50	12.0±0.3	1.75±0.10	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	1.5±0.3	1.95±0.20	3.3±0.2	0.7±0.2	(10.25)	0.3 ^{+0.15} _{-0.10}
	0.53												
	0.55												

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Safety Precautions

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Please contact

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