# **Panasonic**

### 2.6 mm×1.6 mm SMD Light Touch Switches





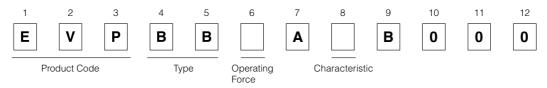
### Features

- 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

• Opearation switches for Smartphone, Wearable devices (Smartwatch, Headset, Hearing aid)

#### Explanation of Part Numbers



#### Specifications

Туре		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.					
Protective Structure		IP67(*1) Water resistance : 4 types of talc 8 h, Water resistance : Immersion depth 1 m 30 min.					
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/Carto	n	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.



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### Dimensions in mm (not to scale)

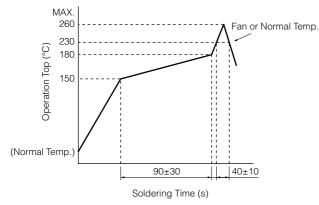
EVPBB							
(Embossed Taping)	General dimension tolerance : ± 0.05 ( )dimensions are reference dimensions.						
	$\frac{(\phi 0.91)}{(\phi 0.7)}$ Actuator cross section (Se						
		Stencil mas	2 1 2 0 2 0 2 0 2 0 2 B B C 1 2 0 2 B B C 1 2 0 2 0 2 B B C 1 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 0 2 0				
		our recommended ster ZZZ :Recommended SXX :No soldering arc Provided at SXX if it's necessar via holes at SXX please apply re metal part com if their metal par completely, sho by solder ball. Besides, there designing addi it may cause sy solder-ability on after reflow sole	a area. y to design land pattern or g area. y to design land pattern or g area, asist to them to protect their pletely. arts are not protected ort circuit failure may occur should be convexoconcave by tional pattern, with tilt, influence on r flux intrusion dering. se study any influence of pattern or via holes at				
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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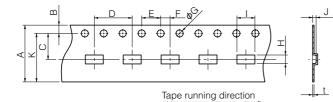
#### Recommended Reflow Soldering Conditions



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

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.

Unit: mm

Part No.	Height	Α	В	С	D	E	F	G	Н	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 <sup>+0.15</sup> -0.10
	0.53												
	0.55												

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## **Requests to customers**

Please refer to "the latest product specifications" when designing your product. Requests to customers : https://industrial.panasonic.com/ac/e/salespolicies/

# **Safety Precautions**

When using our products, no matter what sort of equipment they might be used for, be sure to confirm the applications and environmental conditions with our specifications in advance.

Please contact .....

### Panasonic Corporation

Electromechanical Control Business Division 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan industrial.panasonic.com/ac/e/



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