2.6 mm×1.6 mm SMD Light Touch Switches

Type: **EVPBB**

■ Features

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

■ Recommended Applications

- Operation switches for portable electronic equipment (Mobile phone, Portable audio)

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	V	P	B	B							
Product Code			Type				Height				

■ Specifications

Type		Snap action/Push-on type SPST
Electrical	Rating	10 μA 2 Vdc to 20 mA 15 Vdc (Resistive load)
	Contact Resistance	500 mΩ max.
	Insulation Resistance	50 MΩ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N, 2.4 N
	Travel	0.11 mm
Endurance	Operating Life	500000 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		10000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		50000 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.

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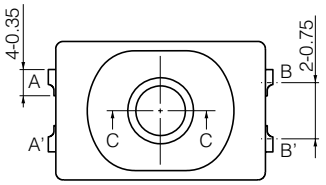
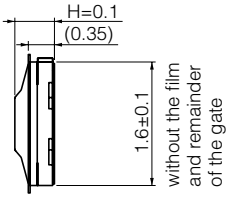
■ Dimensions in mm (not to scale)

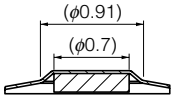
EVPBB

(Embossed Taping)

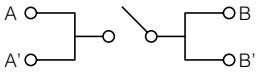
General dimension tolerance : ± 0.05
( )dimensions are reference dimensions.



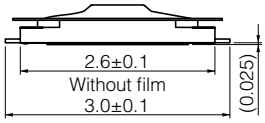


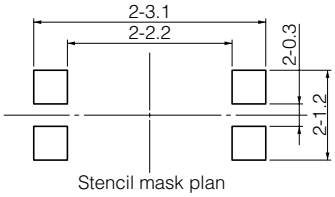


Actuator cross section
(Section C-C)

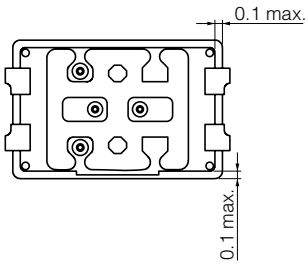


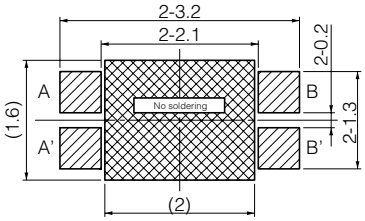
Circuit diagram





Stencil mask plan





Land pattern plan

Soldering thickness t=0.08±0.01

✻ Soldering failure may occur depending on applied solder amount, so, please consider to use our recommended stencil and land pattern desing.

▨ : Recommended land pattern area
▩ : No soldering area

- Any land pattern or via holes shall not be provided at ▩ area.
- If it's necessary to design land pattern orvia holes ▩ at 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,
- Besides, there should be convexoconcave by designing additional pattern, it may cause swith tilt, influence on solder-ability or flux intrusion after reflow soldering.
- Therefore, please study any influence of additioan land pattern or via holes ▩ at area in advance.

Part Numbers	Operating Force	H=Height	Operating Life
EVPBB2A9B000	1.6 N	0.53 mm	500000 cycles
EVPBB4A9B000	2.4 N	0.55 mm	500000 cycles

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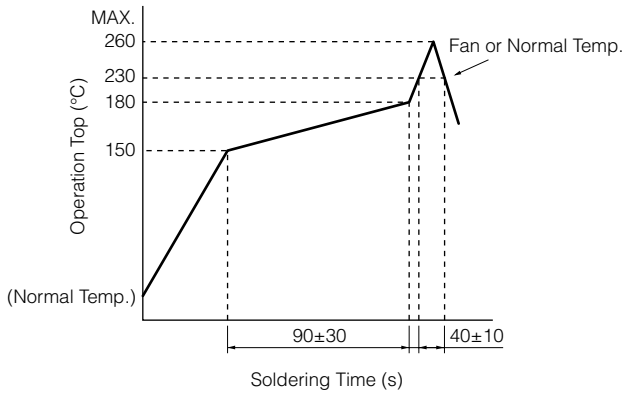
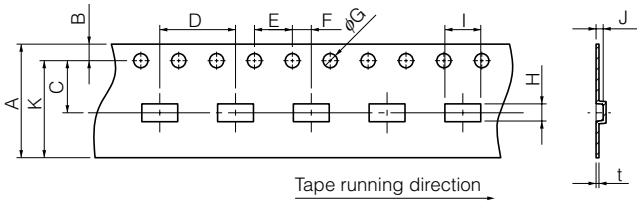
■ Recommended Reflow Soldering Conditions



✻Reflow temperature may vary by high 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 withiin the specification.
If even one of them is out of the specifications, please adjust.

● Embossed Carrier Taping

Tape width=12.0 mm

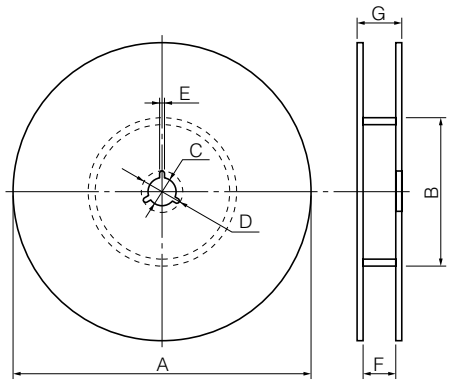


Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
Peeling off strength of top tape : It should be within 0.2N to 1. ON at 165 degree in peeling off angle.
Joint of carrier tape : One joint per one reel may exist.

Unit: mm

Part No.	Height	A	B	C	D	E	F	G	H	I	J	K	t
EVPBB	0.53	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)	$0.3^{+0.15}_{-0.10}$

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.5	φ21.0±1.0	2.0±0.5

Item	F	G
Rate (mm)	13.5±1.0	17.5±1.0

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