

3.8 mm×1.9 mm Side-operational SMD Light Touch Switches

Type: **EVPAK**



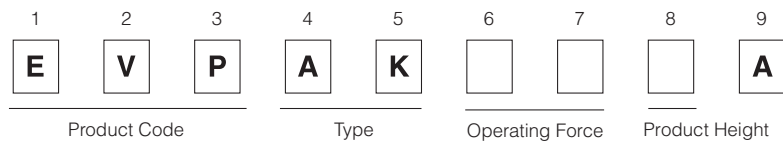
■ Features

- External dimensions: 3.9 mm×2.05 mm, (Excluding the push plate)
Height 1.6 mm
- Side-operational type
- Good feeling
- Measure against electro static discharge (ESD)
- IP67

■ Recommended Applications

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

■ Explanation of Part Numbers



■ Specifications

Type	Snap action/Push-on type SPST	
Electrical	Rating	10 μ A 2 V DC to 20 mA 15 V DC (Resistive load)
	Contact Resistance	100 m Ω max.
	Insulation Resistance	100 M Ω 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
	Travel	0.12 mm
Endurance	Operating Life	500,000 cycles min.
Protective Structure	IP67(*1) Dust 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 +90 °C (Bulk) -20 °C to +60 °C (Taping)	
Minimum Quantity/Packing Unit	5,000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton	25,000 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.

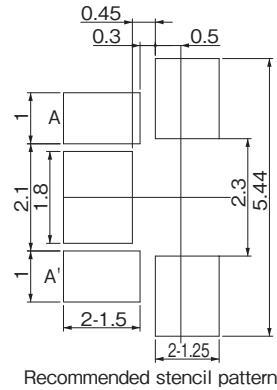
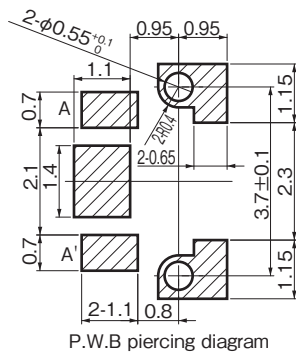
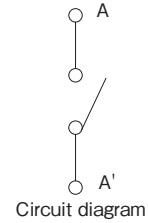
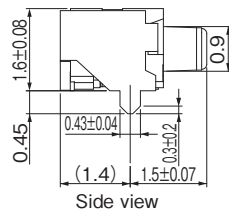
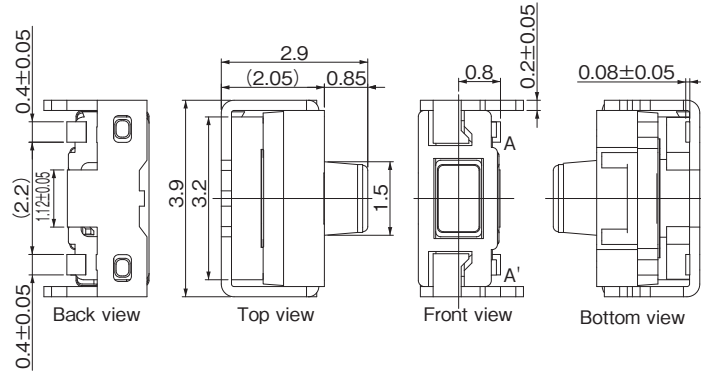
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

EVPAK

(Embossed Taping)

General dimension tolerance: ± 0.1
 () dimensions are reference dimensions.

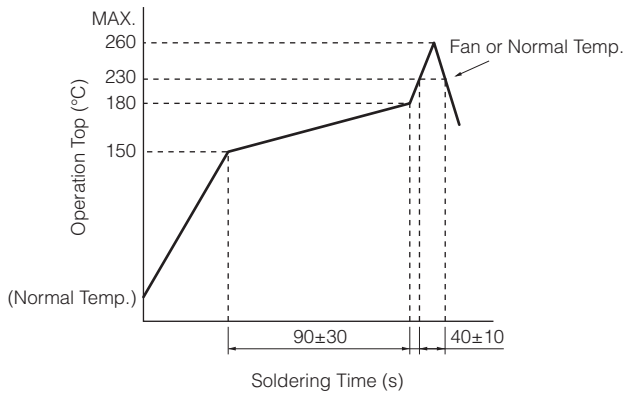


Soldering thickness: $t=0.10$ to 0.12

Part Numbers	Operating Force	Height	Operating Life
EVPAKE31A	1.6 N	1.6 mm	500,000 cycles

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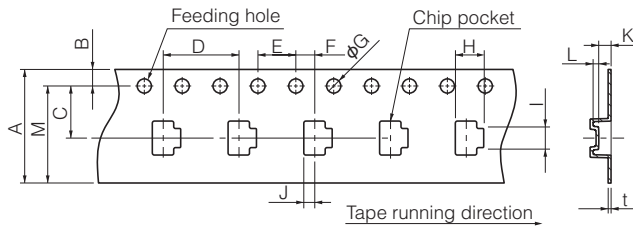
■ Recommended Reflow Soldering Conditions



*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	A	B	C	D	E	F	G	H	I	J	K	L	M	t
EVPAK	1.6	12.0±0.2	1.75±0.10	5.50±0.05	8.0±0.1	4.0±0.1	2.00±0.05	1.5 ^{+0.1} _{-0.1}	3.15±0.20	4.1±0.2	(1.125)	1.8±0.1	0.65±0.10	(10.25)	0.30±0.05

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

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