## **Panasonic**

3.0 mm×2.0 mm SMD Light Touch Switches

Type: **EVPAW** 



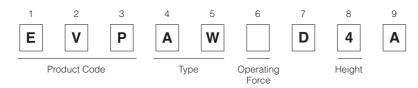
### Features

- External dimensions : 3.0 mm× 2.0 mm, Height 0.6 mm
- High operability equipped with an actuator(push plate)
- IP67

### Recommended Applications

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

## Explanation of Part Numbers(Standard specification only)



### 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	1.6 N, 2.4 N, 3.3 N					
	Travel	1.6 N, 2.4 N : 0.13 mm	3.3 N : 0.15 mm				
Endurance	Operating Life	1.6 N, 2.4 N : 500,000 cycles min.	3.3 N : 300,000 cycles min.				
IP67(*1)	IP6x (Dust resistance)	Dust : Talc (Type4) 8h					
	IPx7 (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/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.

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## Dimensions in mm (not to scale)

EVPAW							
EVPAW (Embossed Taping)	General dimension tolerance ()dimensions are references This reference specification 3.3 There should be cutou on the terminal	e dimensions. Is are subject to change.	nsions. subject to change. If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern shall be 60 to 100 % (recommend 80 %). If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern shall be 60 to 100 % (recommend 80 %). If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern shall be 60 to 100 % (recommend 80 %). If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern shall be 60 to 100 % (recommend 80 %). If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern shall be 60 to 100 % (recommend 80 %). If the constraint of the solder stencil shall be 0.1 mm, and the opening ratio of the solder stencil to a land pattern opening ratio of the solder stencil to a land pattern opening to the solder stencil to a land pattern opening to the solder stencil and pattern design. If the constraint of the solder stencil and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern or via holes shall not be provided and pattern o				
Part Numbers	Operating Force	Height 0.6 mm	Operating Life 500,000 cycles				
			-				
EVPAWCD4A	2.4 N	0.6 mm	500,000 cycles				
EVPAWED4A	3.3 N	0.6 mm	300,000 cycles				

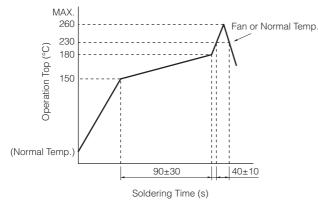
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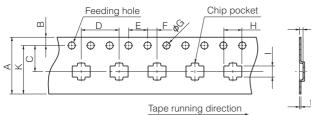
### Recommended Reflow Soldering Conditions



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. 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	В	С	D	E	F	G	Н		J	K	t
EVPAW	0.6	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	3.8±0.2	2.3±0.2	0.75±0.20	(10.25)	0.3 <sup>+0.15</sup> 0.10

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