3.0mm×2.0mm SMD Light Touch Switches

Type: **EVPAW**



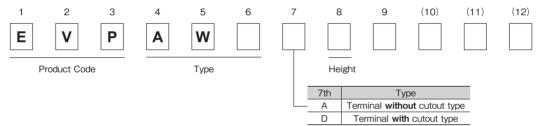
- External dimensions: 3.0mm×2.0mm, Height 0.6mm
- High operability Equipped with an actuator (push plate)
- IP67 characteristic



■ Recommended Applications

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

■ Explanation of Part Numbers



■ specification

Туре		Snap action / Push-on type SPST				
	Rating	10μA 2V DC to 20mA 15V DC (Resistive load)				
Electrical	Contact Resistance	500mΩ max.				
	Insulation Resistance	50MΩ min. (at 100V DC)				
	Dielectric Withstanding Voltage	250V AC for 1 minute				
	Bouncing	10ms max. (ON, OFF)				
Mechanical	Operating Force	1.6N, 2.4N, 3.3N				
	Travel	1.6N, 2.4N : 0.13 mm 3.3N : 0.15 mm				
Endurance	Operating Life	1.6N, 2.4N: 500,000cycles min. 3.3N: 300,000cycles min.				
IDC7	IP6x (Dust resistance)	Dust : Talc (Type4) 8h				
IP67 (*1)	IPx7 (Water resistance)	Immersion depth: 1m 30min.				
Operating Temperature		-40°C to +85°C				
Storage Temperature		-40°C~ +85°C (Bulk) -20°C~ +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.

■ Dimensions in mm (not to scale)

EVPAW (Embossed Taping) Terminal without cutout type General dimension tolerance : $\pm~0.05$) dimensions are reference dimensions. This reference specifications are subject to change. 0.6±0.1 (0.385) (ø0.85) Circuit diagram 2-3.69 Without film 2-2.85 3.5 0.1 max. Stencil mask plan ⊠∫ 3.8 2.7 Ø 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. Part Numbers Operating Force Height Operating Life EVPAWBA2A 1.6N 0.6mm 500,000cycles EVPAWCA2A 2.4N 0.6mm 500,000cycles EVPAWEA2A 3.3N 0.6mm 300,000cycles

EVPAWED2A

■ Dimensions in mm (not to scale)

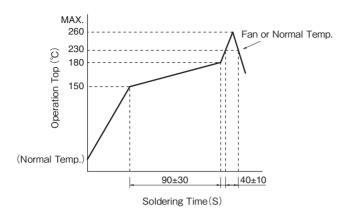
EVPAW (Embossed Taping) Terminal with cutout type General dimension tolerance : $\pm~0.05$) dimensions are reference dimensions. This reference specifications are subject to change. 0.6±0.1 3.3 (0.385) There should be cutout on the terminal (Ø0.85) Circuit diagram 3 0.04 ± 0.03 Without film The thickness of the solder stencil shall be 0.1mm, and the opening ratio of the solder stencil to a land pattern shall be $60{\sim}100\%$ (recommend 80%.) 0.1max. \bowtie × ⊠ X X Land pattern plan 0.1max. *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 or via 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 XX area in advance. Part Numbers Operating Force Height Operating Life EVPAWBD2A 1.6N 0.6mm 500,000 cycles EVPAWCD2A 2.4N 0.6mm 500,000cycles

0.6mm

3.3N

300,000cycles

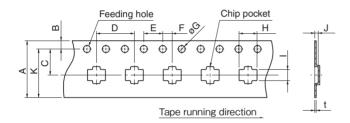
■ Recommended Reflow Soldering Conditions



* 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 withiin the specification. If even one of them is out of the specifications, please adjust.

Embossed Carrier Taping

Tape width=12.0 mm



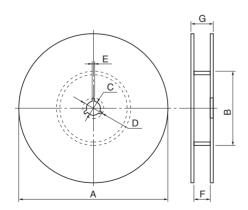
- Taping condition: Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
- the specifications should be secured.

 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
EVPAW	0.6	12.0±0.3	1.75±0.1	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±0.2	(10.25)	0.3 +0.15

• Standard Reel Dimensions in mm (not to scale)



Item	А	В	С	D	E
Rate (mm)	ø380.0±2.0	ø80.0±1.0	ø13.0±0.5	ø21.0±1.0	2.0±0.5
Item	F	G	•		
Rate (mm)	13.5±1.0	17.5±1.0			