6 mm Square Long Travel 2 terminals SMD Light Touch Switches

Type: **EVPAS**

■ Features

- External dimensions : 6.0 mm×6.1 mm, Height 5.0 mm (Including the push plate)
- Steady and low contact resistance (100 mΩ max.)
- Excellent solderability (J-bent-type terminals)

■ Recommended Applications

- Operating switches for car electronic equipments.
- Input on operating switches for telephones, electronic musical instruments, etc.

■ Explanation of Part Numbers(Standard specification only)

1	2	3	4	5	6	7	8	9
E	V	P	A	S				A

Product Code: 1–3 (EVP) | Type: 4–5 (AS) | Operating Force • Travel: 6–7 | Push Plate Color • Product Height: 8–9 (A)

■ Specifications

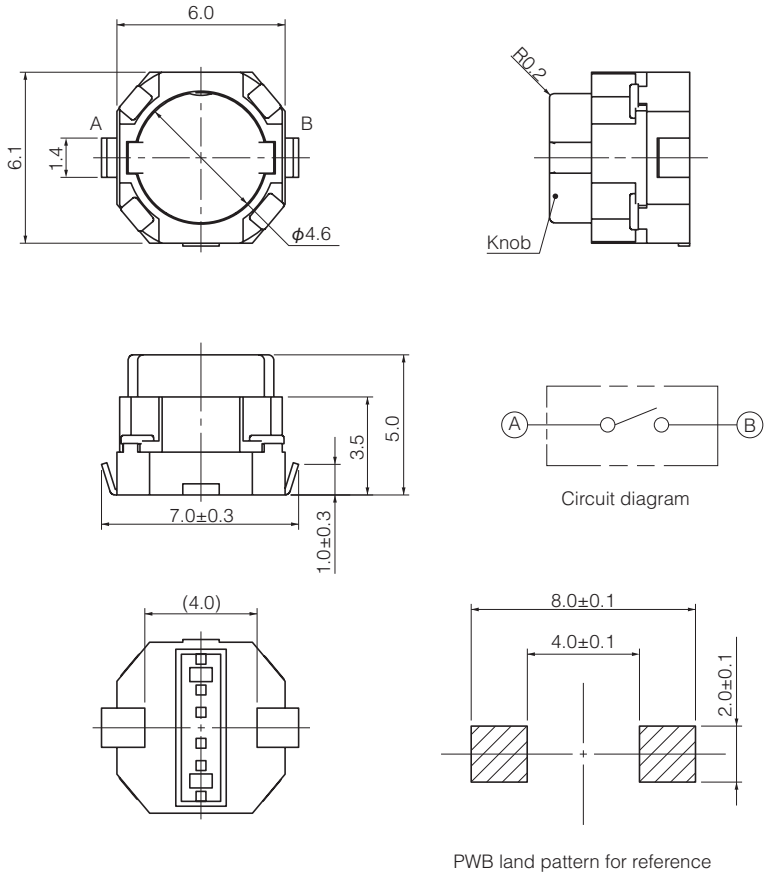
Type		Snap action/Push-on type SPST		
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)		
	Contact Resistance	100 mΩ max.		
	Insulation Resistance	100 MΩ min. (at 100 V DC)		
	Dielectric Withstanding Voltage	250 V AC for 1 minute		
	Bouncing	10 ms max. (ON, OFF)		
Mechanical	Type	Standard type		Narrow tolerance operating force type
	Operating Force	1.6 N±0.5 N	—	—
		2.0 N±0.6 N	—	—
		—	2.2 N±0.6 N	—
		2.5 N±0.6 N	2.5 N±0.6 N	—
		3.0 N±0.8 N	—	3.0 N±0.6 N
		3.5 N±1.0 N	—	—
		—	—	3.6 N±0.8 N
		—	—	4.0 N±0.85 N
	Travel	1.3 mm±0.2 mm	1.0 mm±0.2 mm	
Endurance	Operating Life	1.6 N, 2.0 N, 2.2 N, 2.5 N type: 100,000 cycles min. 3.0 N type: 200,000 cycles min. 3.5 N type: 100,000 cycles min. 3.0 N, 3.6 N with Narrow tolerance type: 300,000 cycles min. 4.0 N with Narrow tolerance type: 200,000 cycles min.		
Operating Temperature		−40 °C to +90 °C		
Storage Temperature		−40 °C to +90 °C (Bulk) −20 °C to +60 °C (Taping)		
Minimum Quantity/Packing Unit		2,000 pcs. Embossed Taping (Reel Pack)		
Quantity/Carton		10,000 pcs.		

■ Dimensions in mm (not to scale)

General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.

EVPAS

(Embossed Taping)



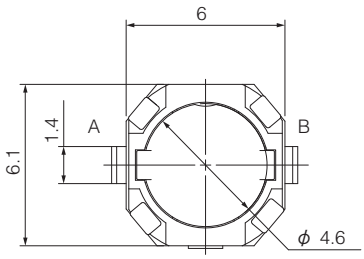
Part Numbers	Operating Force	Travel	Height	Push Plate Color	Operating Life
EVPASCB1A	2.2 N	1.0 mm	5.0 mm	Black	100,000 cycles
EVPASDB1A	2.5 N	1.0 mm	5.0 mm	Black	100,000 cycles
EVPASAC1A	1.6 N	1.3 mm	5.0 mm	Black	100,000 cycles
EVPASBC1A	2.0 N	1.3 mm	5.0 mm	Black	100,000 cycles
EVPASDC1A	2.5 N	1.3 mm	5.0 mm	Black	100,000 cycles
EVPASKC1A	3.0 N	1.3 mm	5.0 mm	Black	200,000 cycles
EVPASJC1A	3.5 N	1.3 mm	5.0 mm	Black	100,000 cycles

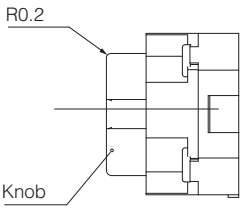
■ Dimensions in mm (not to scale)

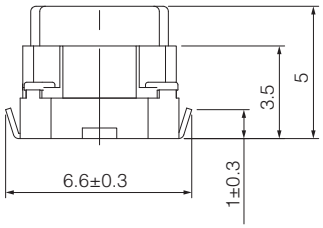
General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.

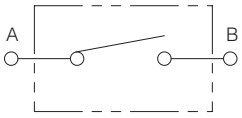
EVPAS

(Embossed Taping)
(Narrow tolerance operating force type)

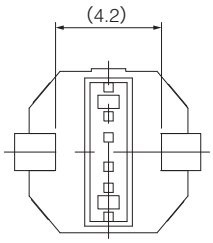


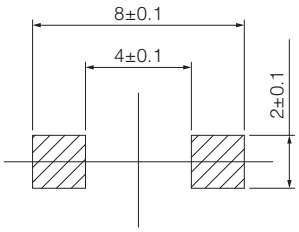






Circuit Diagram



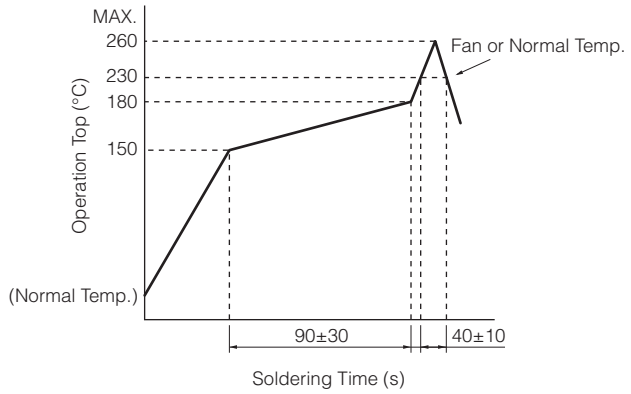


Land pattern plan

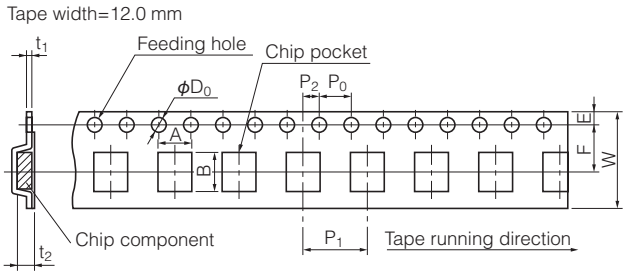
Knob color : BLACK
Solder thickness t=0.15±0.03

Part Numbers	Operating Force	Travel	Height	Push Plate Color	Operating Life
EVPAS4D1A	3.0 N	1.0 mm	5.0 mm	Black	300,000 cycles
EVPAS3D1A	3.6 N	1.0 mm	5.0 mm	Black	300,000 cycles
EVPAS5D1A	4.0 N	1.0 mm	5.0 mm	Black	200,000 cycles

■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping



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	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVPAS	5.0	6.8±0.2	7.7±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	$1.5^{+0.1}_{-0}$	0.4±0.1	5.25±0.20

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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