

### 3.5 mm×2.9 mm Side-operational Half Dive /SMD Light Touch Switches

Type: **EVPAN**



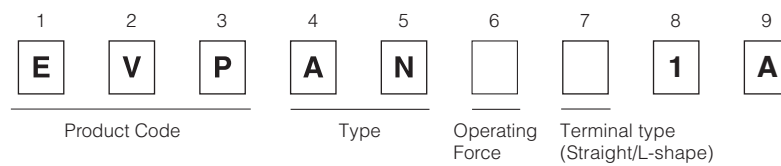
#### ■ Features

- External dimensions : 3.5 mm×2.9 mm (Excluding the push plate), Height 1.2 mm
- Printed circuit board being as low as 0.7 mm
- High mount ability

#### ■ Recommended Applications

- Operation switches for portable electronic equipment (Mobile phones, Digital still cameras, Camcorders, Portable audio players, etc.)

#### ■ Explanation of Part Numbers


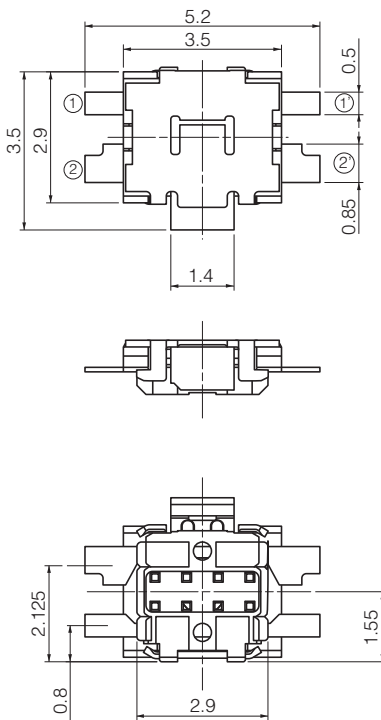
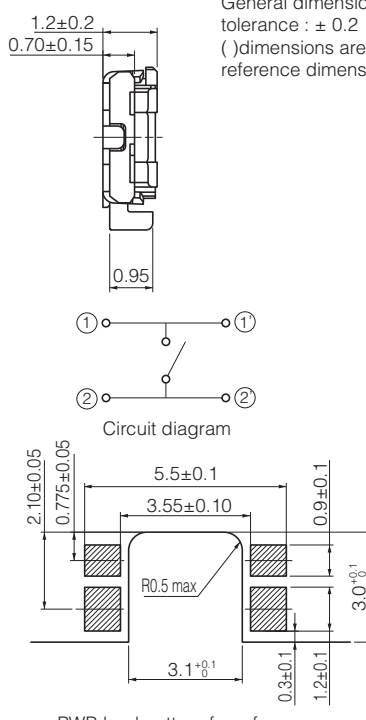
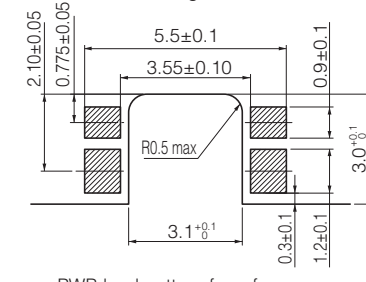

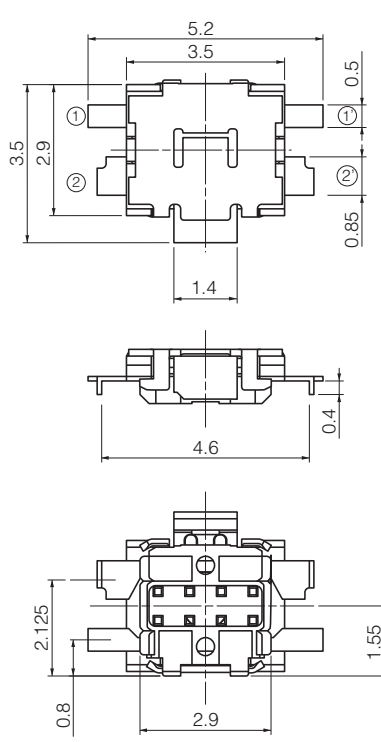
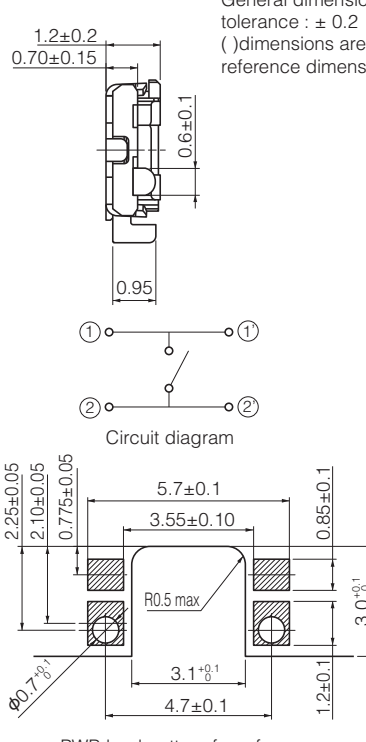
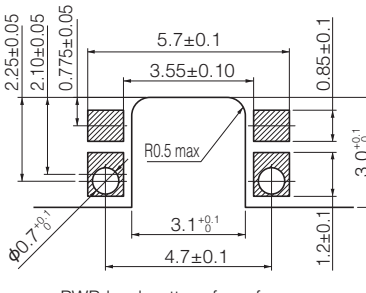


#### ■ Specifications

Type		Snap action / Push-on type SPST
Electrical	Rating	10 $\mu$ A 2 V DC to 50 mA 12 V DC (Resistive load)
	Contact Resistance	500 m $\Omega$ max.
	Insulation Resistance	100 M $\Omega$ 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, 2.2 N
	Push Travel	0.2 mm
	Push Strength	70 N (1 minute)
Endurance	Operating Life	100,000 cycles min.
Operating Temperature		-20 °C to +70 °C
Storage Temperature		-40 °C to +85 °C (Bulk)
		-20 °C to +60 °C (Taping)
Minimum Quantity/Packing Unit		7,000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		35,000 pcs.

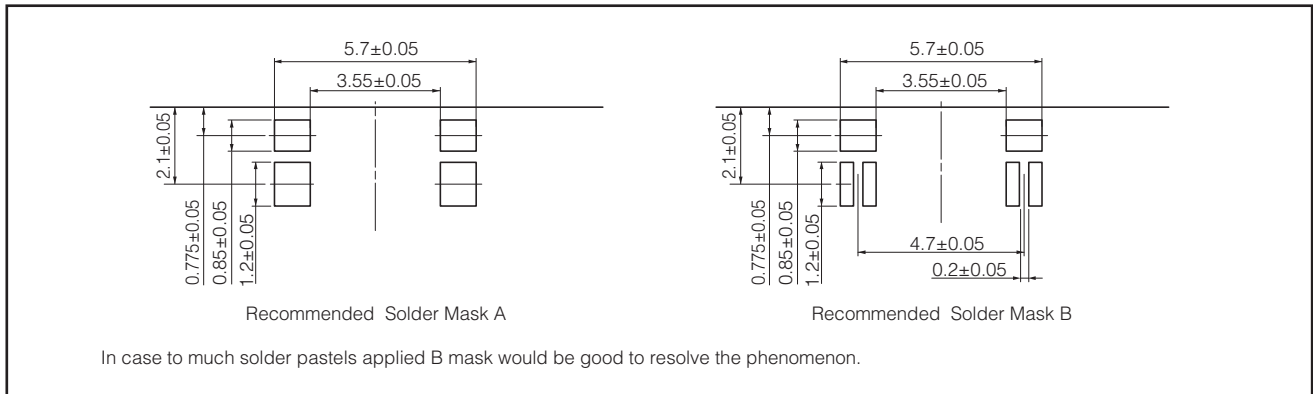
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

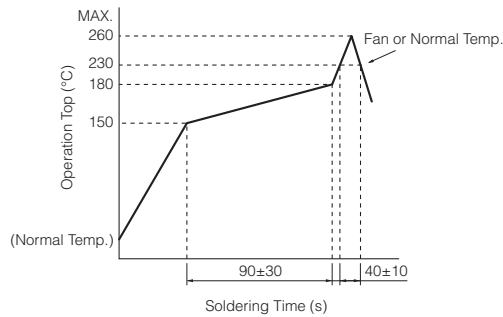
<p>EVPANA EVPAND</p> <p>(Embossed Taping)</p> <p>Straight terminals</p> 	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>General dimension tolerance : ± 0.2 ( ) dimensions are reference dimensions.</p>  <p>Circuit diagram</p>  <p>PWB land pattern for reference</p> </div> </div>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVPANAA1A</p>	<p>1.6 N</p>	<p>0.7 mm</p>	<p>Black</p>	<p>100,000 cycles</p>
<p>EVPANDA1A</p>	<p>2.2 N</p>	<p>0.7 mm</p>	<p>Black</p>	<p>100,000 cycles</p>
<p>EVPANBA1A</p>	<p>1.6 N</p>	<p>0.7 mm</p>	<p>Black</p>	<p>500,000 cycles</p>
<p>EVPAND EVPANB</p> <p>(Embossed Taping)</p> <p>L-shape terminals</p> 	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>General dimension tolerance : ± 0.2 ( ) dimensions are reference dimensions.</p>  <p>Circuit diagram</p>  <p>PWB land pattern for reference</p> </div> </div>			
<p>Part Numbers</p>	<p>Operating Force</p>	<p>Height</p>	<p>Push Plate Color</p>	<p>Operating Life</p>
<p>EVPANDE1A</p>	<p>2.2 N</p>	<p>0.7 mm</p>	<p>Black</p>	<p>100,000 cycles</p>
<p>EVPANBE1A</p>	<p>1.6 N</p>	<p>0.7 mm</p>	<p>Black</p>	<p>500,000 cycles</p>

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## Recommended Solder Mask

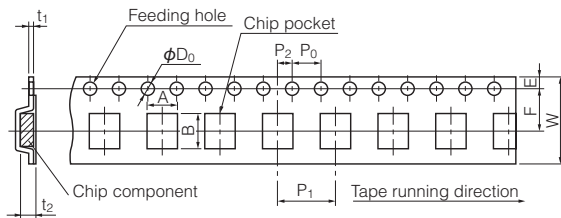


## Recommended Reflow Soldering Conditions



## 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.

## Straight terminals

Unit: mm

Part No.	Height	A	B	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D <sub>0</sub> Dia.	t <sub>1</sub>	t <sub>2</sub>
EVPAN	1.2	5.6±0.2	4.5±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 <sup>+0.1</sup> <sub>-0</sub>	0.3±0.1	1.35±0.20