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

1	2	3	4	5	6	7	8	9
E	V	P	A	N			1	A
Product Code			Type		Operating Force	Terminal type (Straight/L-shape)		

■ Specifications

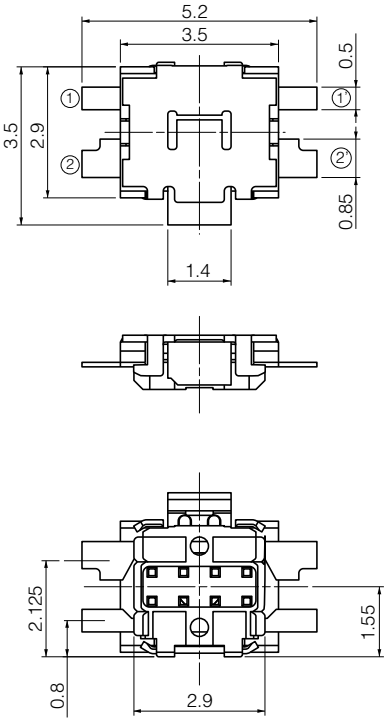
Type		Snap action / Push-on type SPST
Electrical	Rating	10 μA 2 V DC to 50 mA 12 V DC (Resistive load)
	Contact Resistance	500 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 V DC)
	Dielectric Withstanding Voltage	250 V AC for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 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.

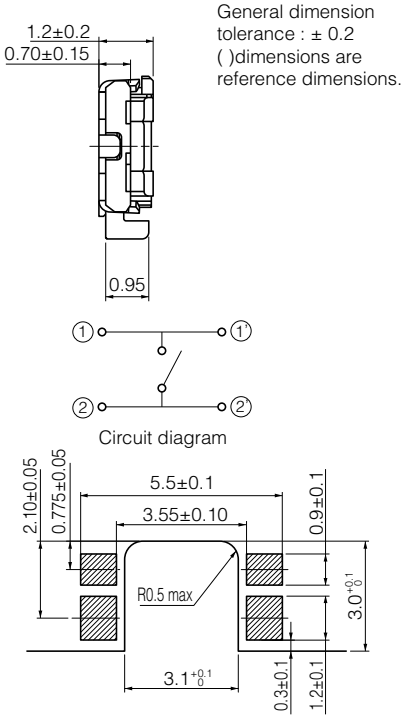
■ Dimensions in mm (not to scale)

EVPANA
EVPAND

(Embossed Taping)

Straight terminals



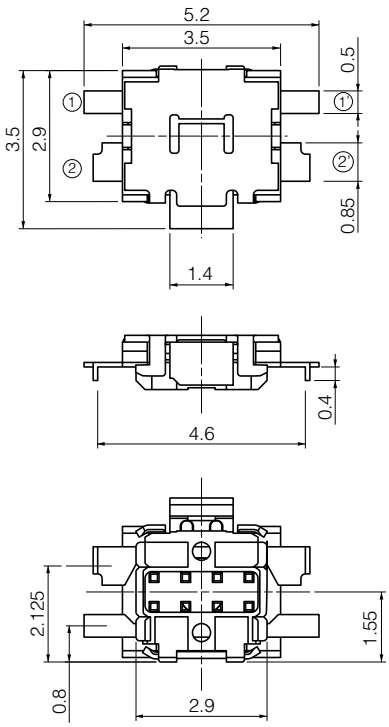


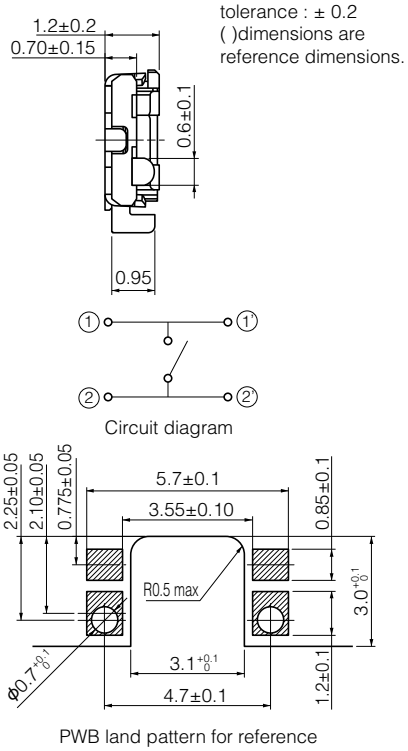
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVPANAA1A	1.6 N	0.7 mm	Black	100,000 cycles
EVPANDA1A	2.2 N	0.7 mm	Black	100,000 cycles
EVPANBA1A	1.6 N	0.7 mm	Black	500,000 cycles

EVPAND
EVPANB

(Embossed Taping)

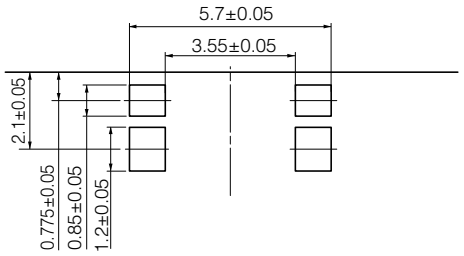
L-shape terminals



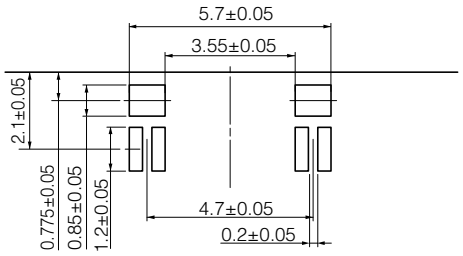


Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVPANDE1A	2.2 N	0.7 mm	Black	100,000 cycles
EVPANBE1A	1.6 N	0.7 mm	Black	500,000 cycles

■ Recommended Solder Mask



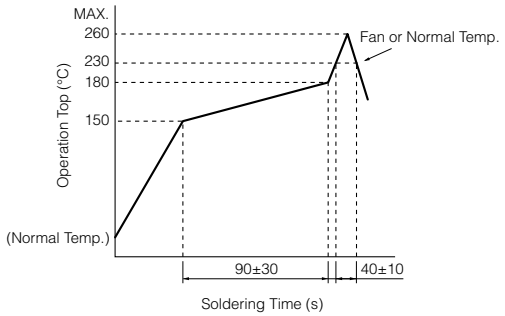
Recommended Solder Mask A



Recommended Solder Mask B

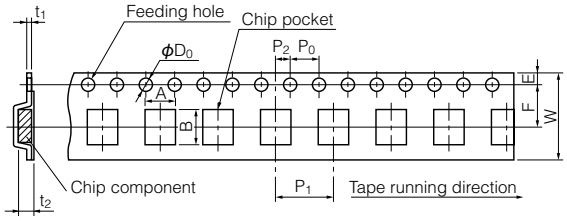
In case to much solder pastels applied B mask would be good to resolve the phenomenon.

■ 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_1	P_2	P_0	D_0 Dia.	t_1	t_2
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	$1.5^{+0.1}_{0}$	0.3±0.1	1.35±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.

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