3.5 mm×2.9 mm Square Light Touch Switches

Japan

Type: **EVPAA**

■ Features

- Super small-size, thin profile, SMD
  (Outer dimensions: 3.5 mm × 2.9 mm,
  Thickness: 1.7 mm)
- High operating force available
  (Operating force : 5.0 N max.)
- Standard J-bent (4 terminals)
- Optional ground terminal

■ Recommended Applications

- Operating switches for cellular phones, digital cameras, keyless entry systems, etc.

■ Explanation of Part Numbers

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

Product Code — Type — Design No

■ Specifications

Type		Snap action/Push-on type SPST
Electrical	Rating	20 mA 15 Vdc max. (Resistive load)
	Contact Resistance	100 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac for 1 minute
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.0 N, 1.6 N, 2.4 N, 3.5 N, 5.0 N
	Travel	0.15 mm±0.1 mm
Endurance	Operating Life	1000000 cycles min. (1.0 N) 200000 cycles min. (1.6 N, 2.4 N, 3.5 N) 100000 cycles min. (5.0 N)
	Operating Temperature	–40 °C to +85 °C (45 % to 85 % RH)
	Storage Temperature	–40 °C to +85 °C (Bulk) –20 °C to +60 °C (Taping)
Minimum Quantity/Packing Unit		5000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		25000 pcs.

Note: Non washable

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NEW

■ Dimensions in mm (not to scale)

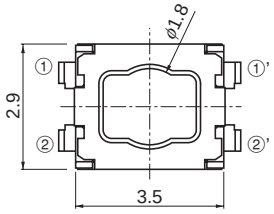
EVPAA

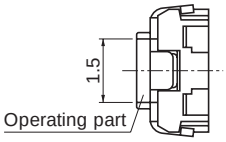
(Embossed Taping)

Thickness : 1.7 mm

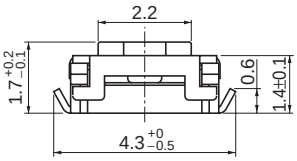
With J-bent terminals

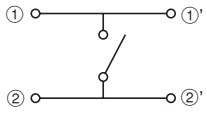
(Tolerance ±0.2)



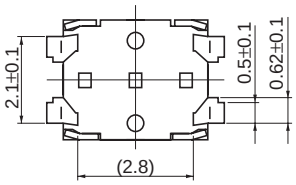


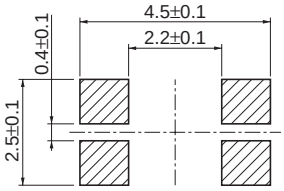
Recommended solder thickness: t=0.15±0.03





Circuit diagram





Recommended land pattern

Part Numbers	Operating Force	Push Plate Color	Operating Life
EVPAA002K	1.0 N	Black	1000000 cycles
EVPAA102K	1.0 N	Black	1000000 cycles
EVPAA202K	1.6 N	Black	200000 cycles
EVPAA302K	1.6 N	Black	200000 cycles
EVPAA402W	2.4 N	White	200000 cycles
EVPAA502W	2.4 N	White	200000 cycles
EVPAA602W	3.5 N	White	200000 cycles
EVPAA702W	3.5 N	White	200000 cycles
EVPAA802Q	5.0 N	Grey	100000 cycles
EVPAA902Q	5.0 N	Grey	100000 cycles

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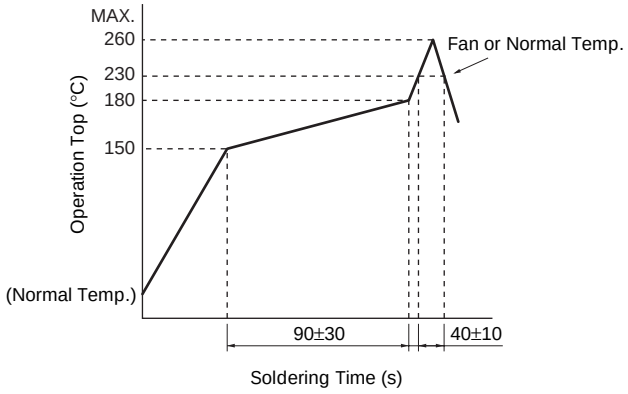
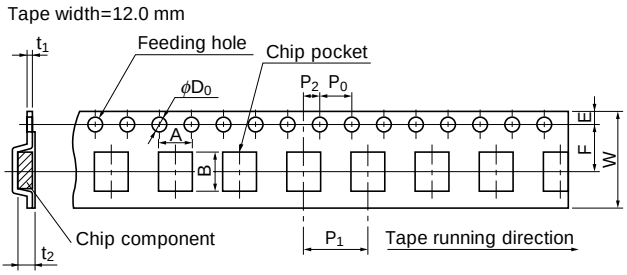
■ Recommended Reflow Soldering Conditions



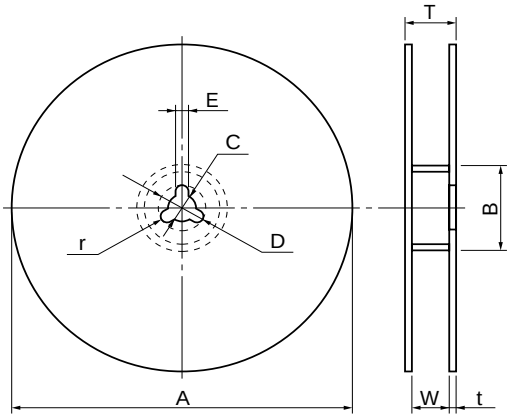
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P1	P2	P0	D0 Dia	t1	t2
EVPAA	1.7	4.5±0.2	3.8±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	1.85±0.20

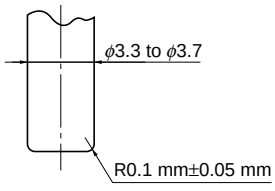
● Standard Reel Dimensions in mm (not to scale)



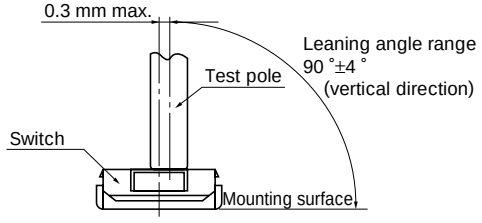
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.2	φ21.0±0.8	2.0±0.5

Item	W	T	t	r
Rate (mm)	13.5±1.0	17.5±1.0	—	—

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions



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