

3.5 mm×2.9 mm SMD Light Touch Switches

Type: **EVPA**



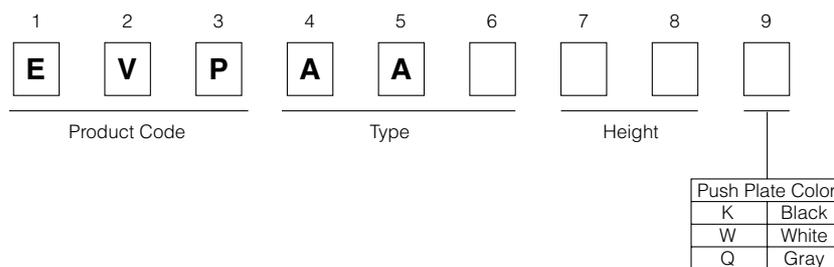
■ Features

- External dimensions : 3.5 mm×2.9 mm, Height 1.7 mm
- High operating force available
(Operating force : 5.0 N max.)
- Optional ground terminal

■ Recommended Applications

- Operation switches for portable electronic equipment
(Mobile phones, Digital still cameras, etc.)
- Operating switches for keyless entry systems

■ Explanation of Part Numbers



■ Specifications

Type		Snap action/Push-on type SPST
Electrical	Rating	10 μ A 2 Vdc to 20 mA 15 Vdc (Resistive load)
	Contact Resistance	100 m Ω max.
	Insulation Resistance	100 M Ω 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 \pm 0.1 mm
Endurance	Operating Life	1000000 cycles min. (1.0 N) 500000 cycles min. (3.5 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
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

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)

EVPAA

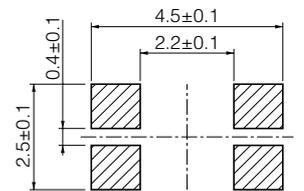
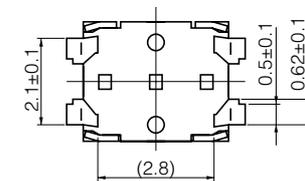
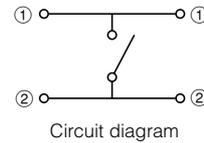
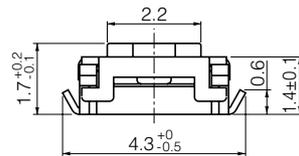
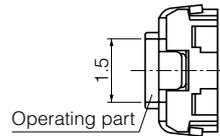
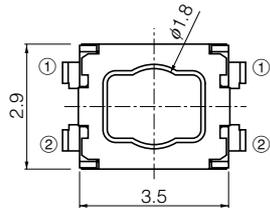
(Embossed Taping)

Thickness : 1.7 mm

With J-bent terminals



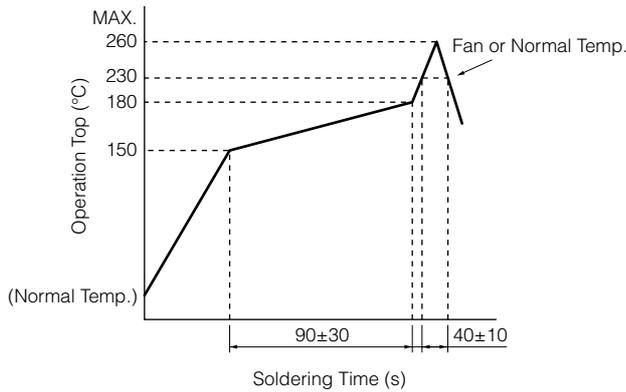
(Tolerance ± 0.2)
() dimensions are reference dimensions.



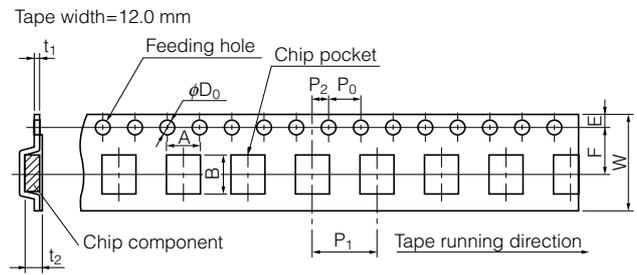
PWB land pattern for reference

Part Numbers	Ground Terminal	Operating Force	Push Plate Color	Operating Life
EVPA002K	Without	1.0 N	Black	1000000 cycles
EVPA102K	With	1.0 N	Black	1000000 cycles
EVPA202K	Without	1.6 N	Black	200000 cycles
EVPA302K	With	1.6 N	Black	200000 cycles
EVPA402W	Without	2.4 N	White	200000 cycles
EVPA502W	With	2.4 N	White	200000 cycles
EVPA602W	Without	3.5 N	White	200000 cycles
EVPAAM02W	Without	3.5 N	White	500000 cycles
EVPA702W	With	3.5 N	White	200000 cycles
EVPA802Q	Without	5.0 N	Gray	100000 cycles
EVPAAN02Q	Without	5.0 N	Gray	100000 cycles (High load : 10N)
EVPA902Q	With	5.0 N	Gray	100000 cycles

Recommended Reflow Soldering Conditions



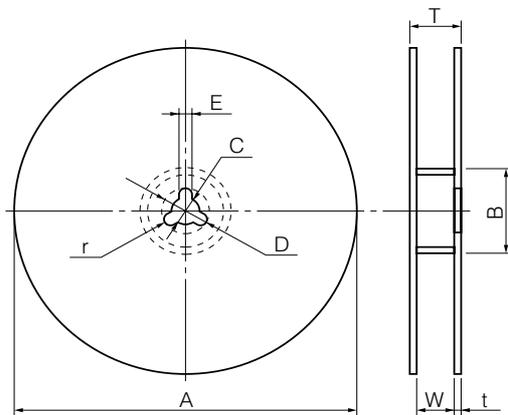
Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia	t ₁	t ₂
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

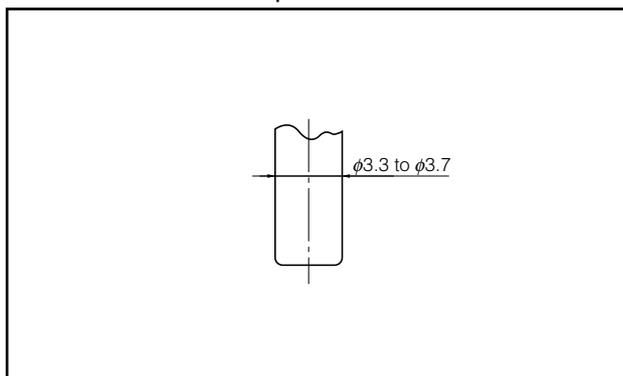
Standard Reel Dimensions in mm (not to scale)



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

