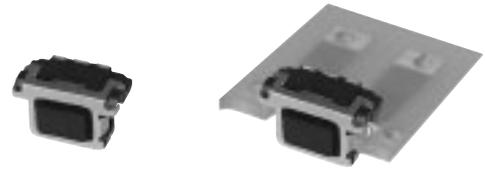**NEW**

4.5 mm×2.2 mm Side-operational Edge Mount
## Light Touch Switches
Type: **EVPAE**

■ Features
● External dimensions : 4.5 mm×2.25 mm (Excluding the push plate), Height 2.9 mm (Printed circuit board being as low as 0.95 mm)
● Improved soldering strength in the operating direction
● Long operational life
● Measure against electro static discharge(ESD)

■ 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	E				

Product Code: E V P   Type: A E   Height
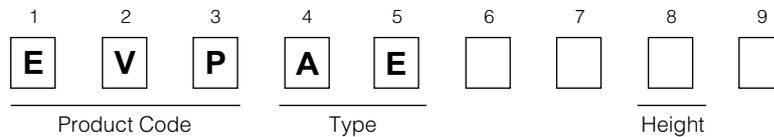
■ Specifications

Type		Snap action / Push-on type SPST
Electrical	Rating	10 µA 2 Vdc to 20 mA 15 Vdc (Resistive load)
	Contact Resistance	1000 mΩ max.
	Insulation Resistance	100 MΩ min. (at 100 Vdc)
	Dielectric Withstanding Voltage	250 Vac (1 minute)
	Bouncing	10 ms max. (ON, OFF)
Mechanical	Operating Force	1.6 N
	Push Travel	0.15 mm
	Push Strength	50 N (1 minute)
Endurance	Operating Life	200000 cycles min.
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		3500 pcs. Embossed Taping (Reel Pack)
Quantity/Carton		17500 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.

00 Sep. 2010

■ Dimensions in mm (not to scale)

EVPAE

Circuit Diagram

4.5
2.2
1.5
2.9
3.3
3.6 +0.08 −0.1

0.95 +0.1 −0.5
0.55
0 +0.08 −0.05

2.6 +0.2 −0.1
1.7 +0.2 −0.1
4.8 +0.2 −0
2.2

2-0.6±0.1
0.6±0.1
(2.3)

PWB land pattern for reference

3.1±0.1
1.5±0.1
0.8±0.1
1.65±0.1
0.4 max. (0.3tpy)
1.35±0.1

Dimensions for reference
R0.3 max.
0.08 +0.7 −0
0.4 max. (0.3tpy)
R0.3 to R0.5
2-0.25 max. (0.2tpy)
2-0.25 max.
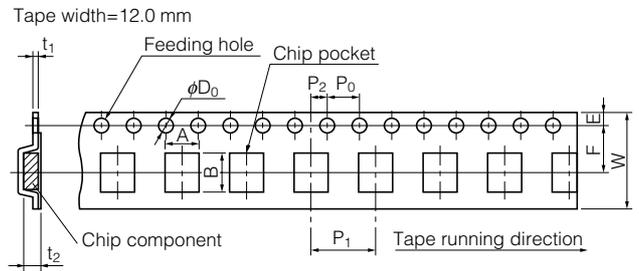
1±0.1
0.3±0.1
3.8 +0.1 −0
5.6±0.1

Push plate side

Note : Please put your consideration not to let any burrs of printed wiring board stick out from the mounting surface of our switches.

✽ Height from surface of PCB : 0.95 mm

■ Recommended Reflow Soldering Conditions

Operation Top (°C)
MAX.
260 — Fan or Normal Temp.
230
180
150
(Normal Temp.)
90±30 | 40±10
Soldering Time (s)
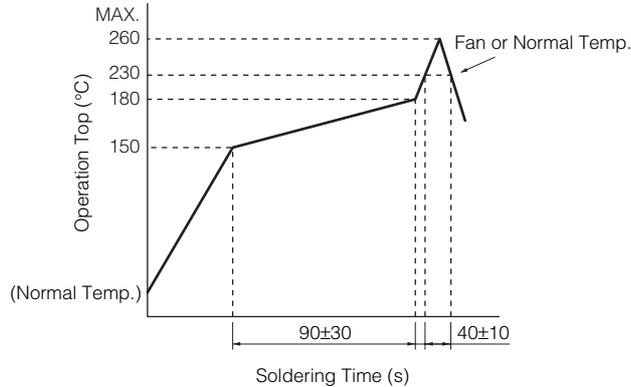
● Embossed Carrier Taping

Tape width=12.0 mm

Feeding hole   Chip pocket
ϕD_0
P_2 P_0
A
B
E
F
W
Chip component
t_1
t_2
P_1 Tape running direction

Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia	t_1	t_2
EVPAE	2.9	5.5±0.2	2.9±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	3.3±0.20

● Standard Reel Dimensions in mm (not to scale)

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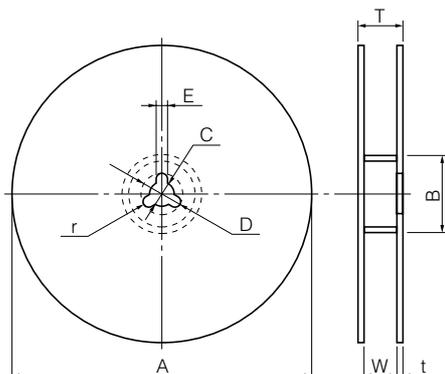
Item	A	B	C	D	E
Rate (mm)	ϕ380.0±2.0	ϕ80.0±1.0	ϕ13.0±0.5	ϕ21.0±1.0	2.0±0.5

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

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