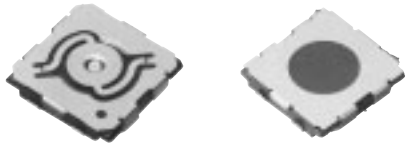
6 mm Square Thin Type Double-action SMD Light Touch Switches

Type: **EVQPR/EVQQ0/EVQ3PR**



■ Features

- External dimensions : 6.0 mm×6.0 mm,
  Height : 0.9 mm (Without push plate)
  0.95 mm (With push plate)
- Wide selection of double action operating variations
  With push plate : 1st 0.7 N, 2nd 2.6 N
  Without push plate : 1st 1.0 N, 2nd 2.6 N
- Wide selection of double action operating variations

■ Recommended Applications

- Camera function
  (Digital still cameras, Camcorders, Mobile phones, etc.)
- Operating switches for menu scrolling and confirmation for portable equipment.

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9
E	V	Q						

4th, 5th, 6th	Boss	Ground Terminal
PRB, Q04	Without	Without
PR7, 3PR	With	Without
PR5, PRD	Without	With
PR9, PRH	With	With

7th, 8th, 9th	Push Plate
A10	With
A09	Without

■ Specifications

Type		Snap action/Push-on type SPDT	
Push Plate type		With Push Plate	Without Push Plate
Electrical	Rating	10 µA 2 Vdc to 20 mA 15 Vdc (Resistive load)	
	Contact Resistance	100 mΩ max.	
	Insulation Resistance	50 MΩ min.	
	Dielectric Withstanding Voltage	100 Vac for 1 minute	
	Bouncing	3 ms max. (ON) 20 ms max. (OFF)	
Mechanical	Operating Force	1st : 0.7 N	1st : 1.0 N
		2nd : 2.6 N	2nd : 2.6 N
	Travel	1st: 0.4 mm 2nd: 0.6 mm	
Endurance	Operating Life	30000 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		5000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton		25000 pcs.	

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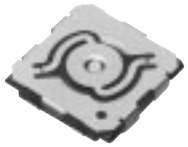
■ Dimensions in mm (not to scale)

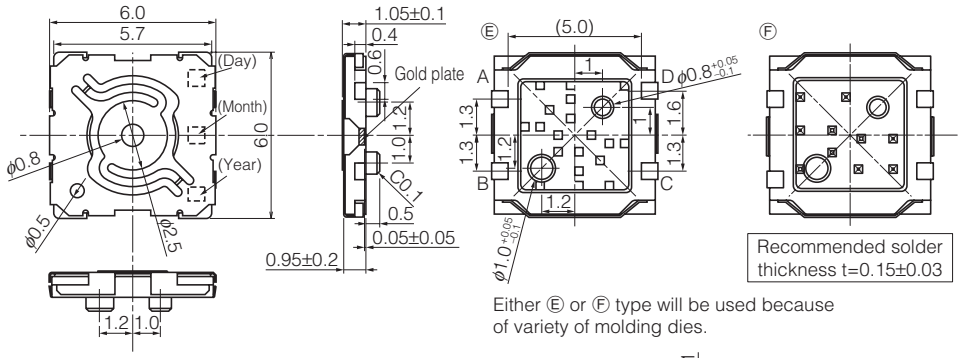
No. 1

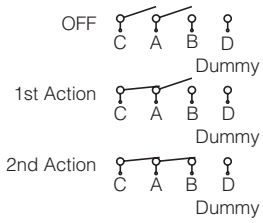
With Push Plate

EVQQ0
EVQPR

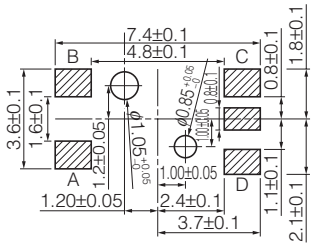
(Mounting base with Boss)
(With ground terminal)







Circuit diagram



PWB land pattern for reference
(View from mounting side)

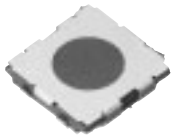
Part Numbers	Ground Terminal	Boss	Operating Force	Height	Operating Life
EVQQ04A10	Without	Without	1st/0.7 N, 2nd/2.6 N	0.95 mm	30000 cycles
EVQPR7A10	Without	With	1st/0.7 N, 2nd/2.6 N	0.95 mm	30000 cycles
EVQPR5A10	With	Without	1st/0.7 N, 2nd/2.6 N	0.95 mm	30000 cycles
EVQPR9A10	With	With	1st/0.7 N, 2nd/2.6 N	0.95 mm	30000 cycles

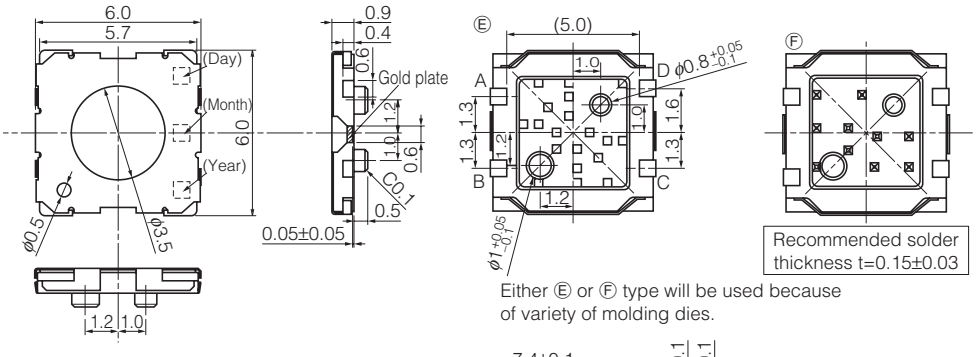
No. 2

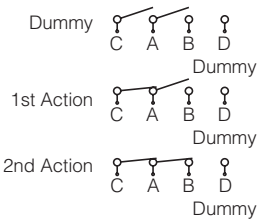
Without Push Plate

EVQPR
EVQ3PR

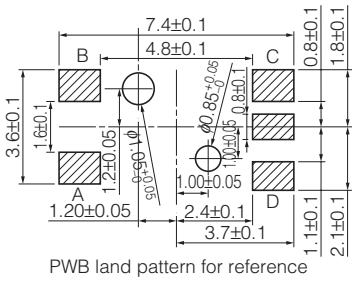
(Mounting base with Boss)
(With ground terminal)







Circuit diagram

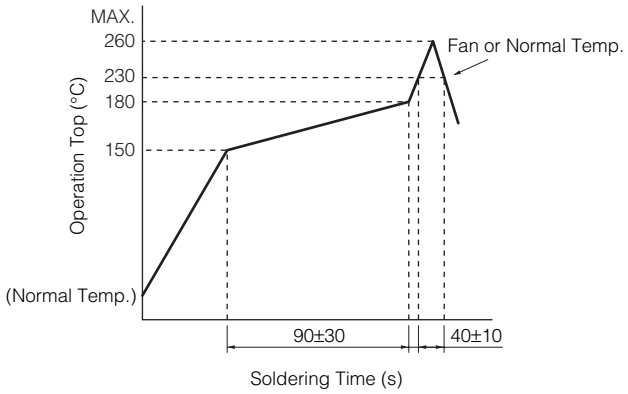


PWB land pattern for reference
(View from mounting side)

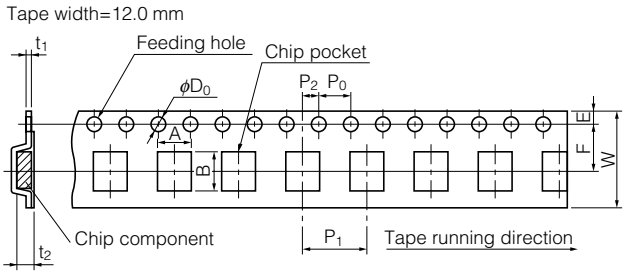
Part Numbers	Ground Terminal	Boss	Operating Force	Height	Operating Life
EVQPRBA09	Without	Without	1st/1.0 N, 2nd/2.6 N	0.9 mm	30000 cycles
EVQ3PRA09	Without	With	1st/1.0 N, 2nd/2.6 N	0.9 mm	30000 cycles
EVQPRDA09	With	Without	1st/1.0 N, 2nd/2.6 N	0.9 mm	30000 cycles
EVQPRHA09	With	With	1st/1.0 N, 2nd/2.6 N	0.9 mm	30000 cycles

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■ Recommended Reflow Soldering Conditions



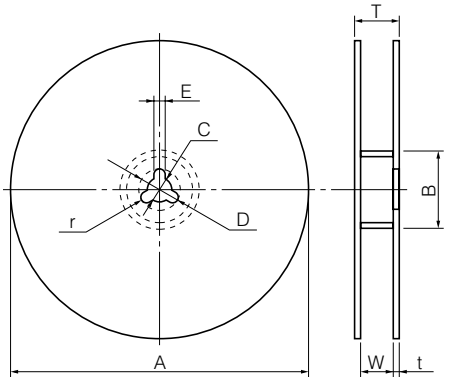
● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQPR/Q0/3PR	0.9, 0.95	6.3±0.3	6.3±0.3	12.0±0.3	5.50±0.15	1.75±0.15	8.00±0.15	2.00±0.15	4.00±0.15	$1.5^{+0.1}_{-0}$	0.30±0.05	$1.7^{+0.2}_{-0.1}$

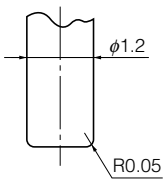
● Standard Reel Dimensions in mm (not to scale)



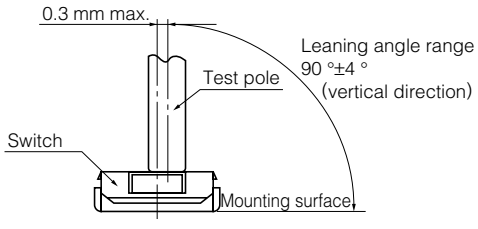
Item	A	B	C	D	E
Rate (mm)	φ380.0±2.0	φ80.0±1.0	φ13.0±0.2	φ21.0±0.8	2.0±0.5

Item	W	T	t	r
Rate (mm)	13.5±1.0	17.5±1.0	1.0 to 3.0	1.0±0.5

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions



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