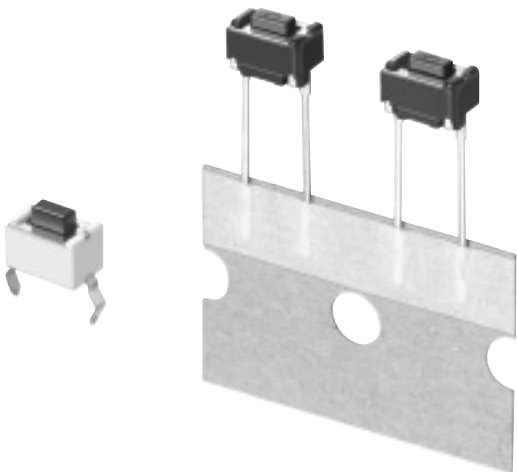


6.0 mm×3.5 mm Square Light Touch Switches

Japan

Type: **EVQPE/EVQPJ/EVQPN/EVQ5P**

6.0 mm×3.5 mm size, narrow width type



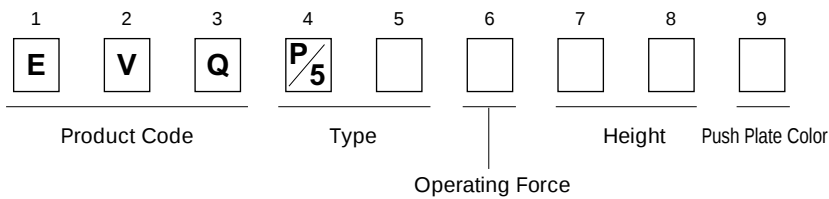
■ Features

- 6.0 mm×3.5mm-type for space saving, high-density mounting
- Excellent clear click feeling
- Wave soldering available
- Excellent soldering heat endurance due to heat-resistant resin
- Excellent mounting efficiency with radial taping package

■ Recommended Applications

- Car audio equipment

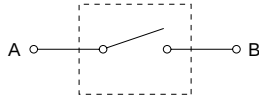
■ Explanation of Part Numbers



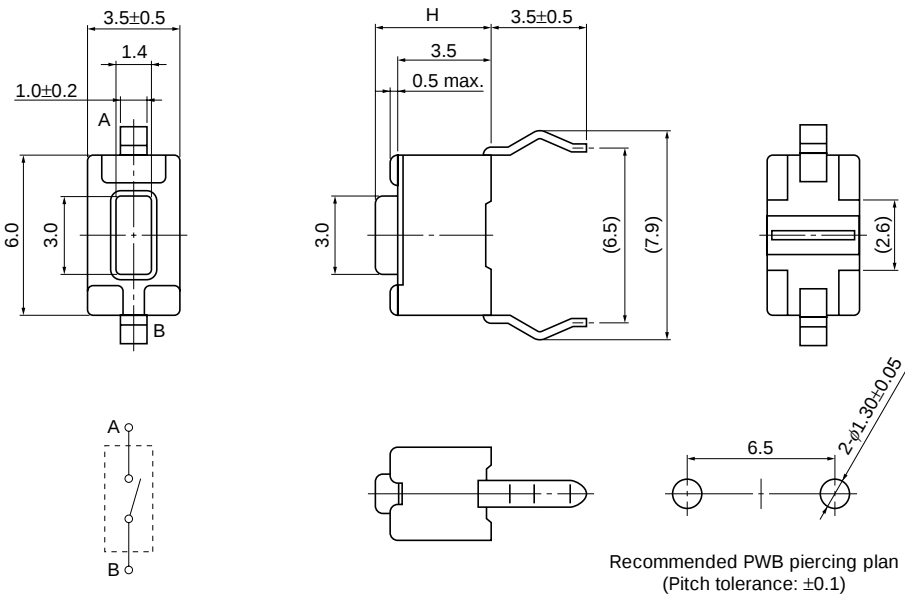
■ Product Chart

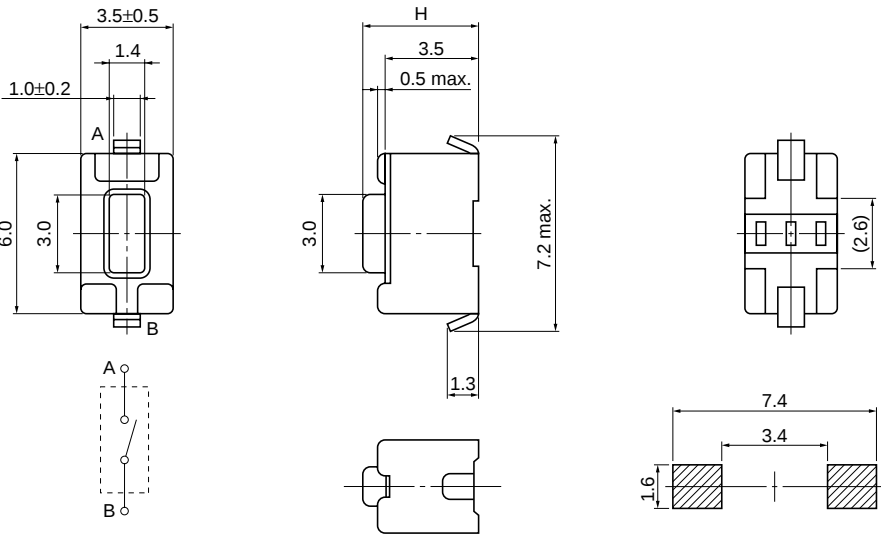
Operating Force \ Type	Bulk Type	SMD	Radial Taping	Height
1.0 N±0.5 N	EVQPE4	EVQPE1	EVQPJG	H=4.3 mm H=5.0 mm
1.6 N±0.5 N	EVQPE5	EVQPNF	EVQPJH	
2.4 N±0.6 N	EVQPE6	EVQ5PN	EVQPJJ	

■ Specifications

Type		Snap action/Push-on type SPST	
Electrical	Circuit Diagram		
	Rating	50 mA 12 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±0.5N (Low force type) 1.6 N±0.5 N (Standard)	2.4 N±0.6 N
	Travel	0.25 mm ^{+0.20} _{-0.10} mm	
Endurance	Operating Life	50000 cycles min.	30000 cycles min.
	Operating Temperature	-30 °C to +85 °C (45 % to 85 % RH)	
	Storage Temperature	-40 °C to +85 °C (Bulk) -20 °C to +40 °C (Taping)	
Minimum Quantity/ Packing Unit	EVQPE4	1000 pcs. Polyethylene Bag (Bulk)	
	EVQPE5		
	EVQPE6		
	EVQPE1	2000 pcs. Embossed Taping(Reel Pack) (H = 5.0 mm)	2500 pcs. Embossed Taping(Reel Pack) (H = 4.3 mm)
	EVQPNF		
	EVQ5PN		
	EVQPJG	2000 pcs. Radial Taping (Reel Pack)	
	EVQPJH		
	EVQPJJ		
Quantity/Carton	EVQPE4	10000 pcs.	
	EVQPE5		
	EVQPE6		
	EVQPE1	10000 pcs. (H = 5.0 mm)	12500 pcs. (H = 4.3 mm)
	EVQPNF		
	EVQ5PN		
	EVQPJG	20000 pcs.	
	EVQPJH		
	EVQPJJ		

■ Dimensions in mm (not to scale)

No. 1 EVQPE4 EVQPE5 EVQPE6 (Bulk) 		 Circuit diagram Recommended PWB piercing plan (Pitch tolerance: ± 0.1) View from mounting side		
Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQPE404Q	1.0 N	4.3 mm	Grey	50000 cycles
EVQPE405Q	1.0 N	5.0 mm	Grey	50000 cycles
EVQPE504K	1.6 N	4.3 mm	Black	50000 cycles
EVQPE505K	1.6 N	5.0 mm	Black	50000 cycles
EVQPE604T	2.4 N	4.3 mm	Brown	30000 cycles
EVQPE605T	2.4 N	5.0 mm	Brown	30000 cycles

No. 2 EVQPE1 EVQPNF EVQ5PN (Embossed Taping) 6 mm×3.5 mm Square SMD 		 Circuit diagram Recommended land pattern		
Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQPE104K	1.0 N	4.3 mm	Black	50000 cycles
EVQPE105K	1.0 N	5.0 mm	Black	50000 cycles
EVQPNF04M	1.6 N	4.3 mm	Natural	50000 cycles
EVQPNF05M	1.6 N	5.0 mm	Natural	50000 cycles
EVQ5PN04K	2.4 N	4.3 mm	Black	30000 cycles
EVQ5PN05K	2.4 N	5.0 mm	Black	30000 cycles

■ Dimensions in mm (not to scale)

No. 3

EVQPJG
EVQPJH
EVQPJJ

(Radial Taping)

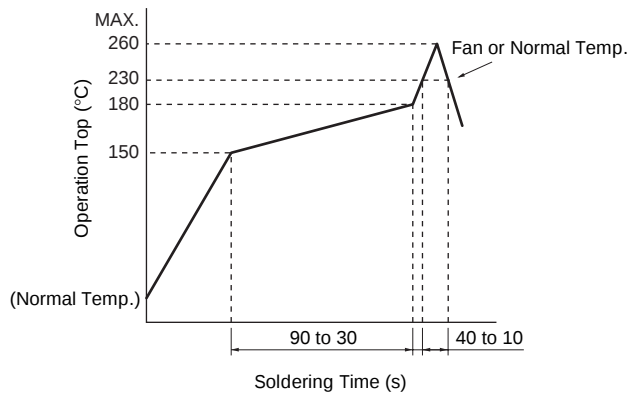
Recommended PWB piercing plan
(Pitch tolerance: ± 0.1)
View from mounting side

JIS C0806-2 shall be applied to the items not specified here.

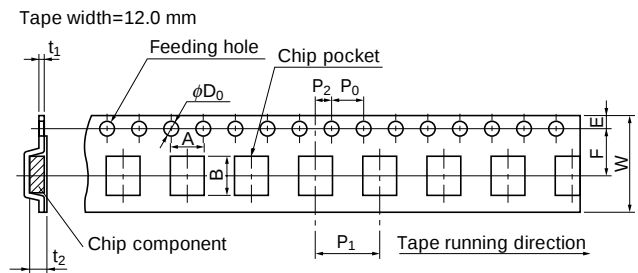
Circuit diagram

Part Numbers	Operating Force	H=Height	Push Plate Color	Operating Life
EVQPJG04Q	1.0 N	4.3 mm	Grey	50000 cycles
EVQPJG05Q	1.0 N	5.0 mm	Grey	50000 cycles
EVQPJH04K	1.6 N	4.3 mm	Black	50000 cycles
EVQPJH05K	1.6 N	5.0 mm	Black	50000 cycles
EVQPJJ04T	2.4 N	4.3 mm	Brown	30000 cycles
EVQPJJ05T	2.4 N	5.0 mm	Brown	30000 cycles

■ Recommended Reflow Soldering Conditions

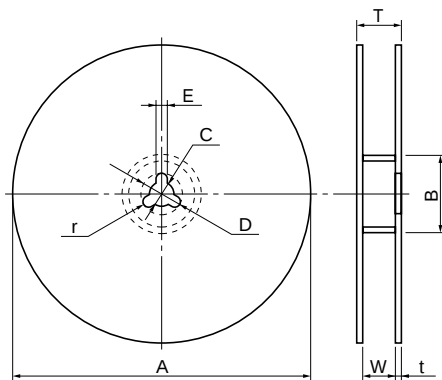


● Embossed Carrier Taping



Unit: mm												
Part No.	Height	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀ Dia.	t ₁	t ₂
EVQPE EVQPJ EVQPN EVQ5P	4.3/5.0	4.45±0.20	7.25±0.20	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	0.30±0.05	4.5/5.2±0.2

● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	φ370.0±2.0	φ50.0 min.	φ13.0±0.5	φ21.0±1.0	2.0±0.5

Item	W	T	t	r
Rate (mm)	14.0±1.5	—	1.0 to 3.0	1.0±0.5