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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2 mm Thick SMD Light Touch Switches for Reflow Soldering (With Push Plate)

Type: **EVQPH/EVQQX**

Surface-mount type with a push plate

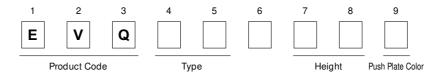
- Features
- Easy operation with push plate
- Reflow soldering
- Wide product variety

Japan



- Recommended Applications
- Car electronics equipment

■ Explanation of Part Numbers



■ Product Chart

	Soldering		Reflow soldering				
Type with Push Plate			Without s	ealing film	With sealing film		
	Packaging		Тар	oing	Taping		
			L=2.0, 2.5, 3.1 mm		L=3.1 mm		
	Ground terminal		Without	With	Without	With	
Profile	Operating Force	1.3 N	EVQQXP	EVQQXM	EVQPHP	EVQPHL	
		1.6 N	EVQQXS	EVQQXN	EVQPHV	EVQPHN	
		2.6 N	EVQQXT	EVQQXK	EVQPHU	EVQPHK	

■ Specifications

Туре			Snap action / Push-on type SPST				
	Rating		20 mA 15 Vdc max. (Resistive load)				
Floorisal	Contact Resistance	се	50 mΩ max.				
	Insulation Resista	nce	50 M Ω min. (at 100 Vdc)				
Electrical	Dielectric Withstan	ding Voltage	250 Vac for 1 minute				
	Bouncing		3 ms max. (ON) 8 ms max. (OFF)				
Mechanical	Operating Force		1.3 N±0.4 N 1.6 N±0.5 N	2.6 N± 0.6 N			
	Travel		0.25 mm±0.10 mm				
	Operating Life	EVQPH	100000 cycles min.	50000 cycles min.			
		EVQQX	1000000 cycles min.	100000 cycles min.			
Endurance	Operating Tempe	rature	-20 °C to +70 °C (45 % to 85 % RH)				
	Storage Temperat	ure	-40 °C to $+85$ °C (Bulk) -20 °C to $+60$ °C (Taping)				
Minimum Quantity/Packing Unit			H=2.0 mm	4000 pcs. Embossed Taping (Reel Pack)			
			H=2.5 mm, 3.1 mm	2000 pcs. Embossed Taping (Reel Pack)			
Quantity/Carton			H=2.0 mm	20000 pcs.			
			H=2.5 mm, 3.1 mm	10000 pcs.			

Note: Non washable

* This land not necessary when a ground

terminal is not used.

■ Dimensions in mm (not to scale)

No. 1 **EVQPH** φ3.2 (Embossed Taping) With push plate Surface mount For reflow soldering With ground terminal Without ground terminal Non-washable in solvents Types with ground terminal available *1 min. Circuit diagram Reference of PWB pattern

Part Numbers	Operating Force	Height	Push Plate Color	Ground Terminal	Operating Life
EVQPHP03T	1.3 N	3.1 mm	Brown	Without	100000 cycles
EVQPHV03T	1.6 N	3.1 mm	Brown	Without	100000 cycles
EVQPHU03T	2.6 N	3.1 mm	Brown	Without	50000 cycles
EVQPHL03T	1.3 N	3.1 mm	Brown	With	100000 cycles

EVQQXK01W

EVQQXK02W

EVQQXK03W

■ Dimensions in mm (not to scale)

No. 2 6.2±0.3 **EVQQX** 4.0 $0.8_{-0.1}^{0}$ (Embossed Taping) ø3.6 Α В With push plate Surface mount $\phi 3.0$ 6.8 ± 0.3 6.2 ± 0.3 For reflow soldering With ground terminal Without ground terminal Knob Notes: 1. Non-washable in solvents 2. Types with ground terminal 2.0 available _2.0 1 min Height Н Reference of PWB pattern Circuit Diagram 2.0±0.2 2.5±0.2 * This land not necessary when a ground $3.1^{+0.3}_{-0.1}$ terminal is not used. Part Numbers Operating Force H=Height Push Plate Color Ground Terminal Operating Life White Without EVQQXP01W 1.3 N 2.0 mm 1000000 cycles EVQQXP02W 1.3 N 2.5 mm White Without 1000000 cycles EVQQXP03W 1.3 N White Without 1000000 cycles 3.1 mm White Without EVQQXS01W 1.6 N 2.0 mm 1000000 cycles EVQQXS02W 1.6 N 2.5 mm White Without 1000000 cycles EVQQXS03W 1.6 N 3.1 mm White Without 1000000 cycles Without EVQQXT01W 2.6 N 2.0 mm White 100000 cycles EVQQXT02W 2.6 N White Without 100000 cycles 2.5 mm EVQQXT03W White Without 100000 cycles 2.6 N 3.1 mm White With EVQQXM01W 1.3 N 2.0 mm 1000000 cycles EVQQXM02W 1.3 N White With 1000000 cycles 2.5 mm EVQQXM03W 1.3 N 3.1 mm White With 1000000 cycles EVQQXN01W With 1000000 cycles 1.6 N 2.0 mm White With 1000000 cycles EVQQXN02W 1.6 N 2.5 mm White With EVQQXN03W 1.6 N 3.1 mm White 1000000 cycles

2.0 mm

2.5 mm

3.1 mm

White

White

White

With

With

With

2.6 N

2.6 N

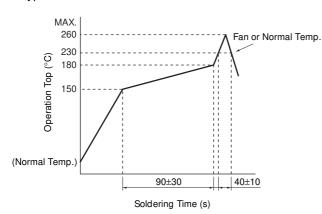
2.6 N

100000 cycles

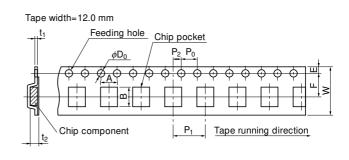
100000 cycles

100000 cycles

- Recommended Reflow Soldering Conditions
- Type EVQPH
- Type EVQQX



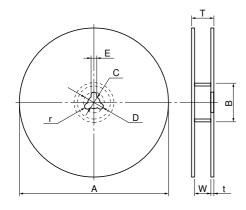
Embossed Carrier Taping



Unit: mm

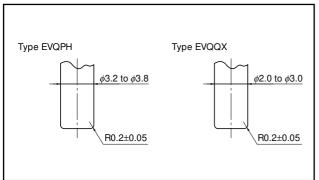
Part No.	Height	Α	В	W	F	E	P ₁	P ₂	P₀	D₀ Dia.	t ₁	t ₂
EVQPH	3.1											3.2±0.2
FVOOY	2.0	7.0±0.2	7.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	$1.5^{+0.1}_{-0}$	0.30 ± 0.05	2.2±0.2
EVQQX	2.5/3.1	ĺ									ı	3.2±0.2

Standard Reel Dimensions in mm (not to scale)



Item	A	В	С	D	E
Rate (mm)	ate (mm) ϕ 370.0±2.0		ϕ 13.0±0.5	φ21.0±1.0	2.0±0.5
Item	W	Т	t	r	
Rate (mm)	14.0±1.5	_	1.0 to 3.0	1.0±0.5	

■ Recommended Shape of Test Pole



■ Recommended Operating Conditions

