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

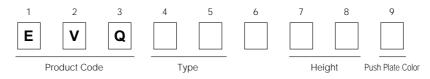
Japan



■ Recommended Applications

- Operating switches for camcorders, headphone stereos.
- Operating signal input switches for communication equipment.

■ Explanation of Part Numbers



■ Product Chart

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

■ Specifications

Typo			Span action / De	ush on type SDST			
Туре			Snap action / Push-on type SPST				
Electrical	Rating		20 mA 15 Vdc max. (Resistive load)				
	Contact Resistance	ce	50 m Ω max.				
	Insulation Resista	nce	50 M Ω min. (at 100 Vdc)				
	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				
Endurance	Operating Life	EVQPH	100000 cycles min.	50000 cycles min.			
	Operating Life	EVQQX	1000000 cycles min.	100000 cycles min.			
	Operating Tempe	rature	-20 °C to +70 °C (45 % to 85 % RH)				
	Storage Temperature		-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

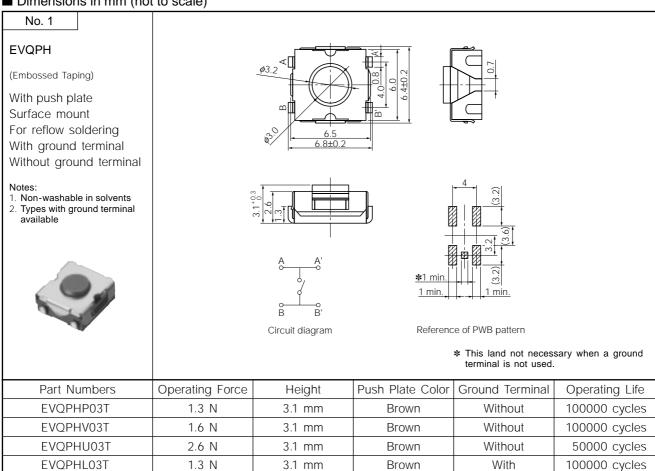
EVQPHN03T

EVQPHK03T

1.6 N

2.6 N

■ Dimensions in mm (not to scale)



3.1 mm

3.1 mm

Brown

Brown

With

With

100000 cycles

50000 cycles

EVQQXK01W

EVQQXK02W

EVQQXK03W

■ Dimensions in mm (not to scale)

No. 2 **EVQQX** 4.0 $0.8_{-0.1}^{0}$ (Embossed Taping) ø3.b Α В With push plate Surface mount φ3.0 6.2±0.3 6.8±0.3 For reflow soldering With ground terminal Without ground terminal Knob Notes: Non-washable in solvents 2.0 2. Types with ground terminal 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. Operating Force H=Height Push Plate Color **Ground Terminal** Operating Life Part Numbers Without EVQQXP01W 1.3 N 2.0 mm White 1000000 cycles EVQQXP02W 1.3 N 2.5 mm White Without 1000000 cycles EVQQXP03W 1.3 N White Without 1000000 cycles 3.1 mm Without EVQQXS01W 1.6 N 2.0 mm White 1000000 cycles EVQQXS02W 1.6 N 2.5 mm White Without 1000000 cycles EVQQXS03W 1.6 N 3.1 mm White Without 1000000 cycles EVQQXT01W 2.6 N 2.0 mm White Without 100000 cycles EVQQXT02W White Without 2.6 N 2.5 mm 100000 cycles EVQQXT03W White Without 100000 cycles 2.6 N 3.1 mm White With EVQQXM01W 1.3 N 2.0 mm 1000000 cycles 1.3 N White With 1000000 cycles EVQQXM02W 2.5 mm EVQQXM03W 1.3 N 3.1 mm White With 1000000 cycles EVQQXN01W 1.6 N 2.0 mm White With 1000000 cycles EVQQXN02W 1.6 N 2.5 mm White With 1000000 cycles EVQQXN03W 1.6 N 3.1 mm White With 1000000 cycles

2.0 mm

2.5 mm

3.1 mm

White

White

White

With

With

With

2.6 N

2.6 N

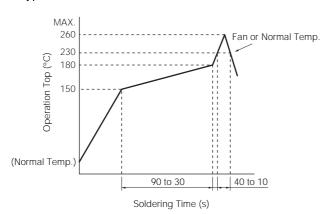
2.6 N

100000 cycles

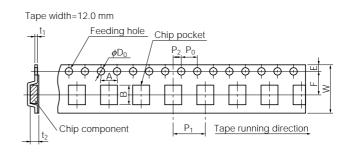
100000 cycles

100000 cycles

- Recommended Reflow Soldering Conditions
- Type EVQPH
- Type EVQQX



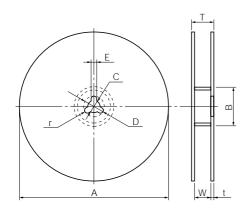
Embossed Carrier Taping



Unit: mm

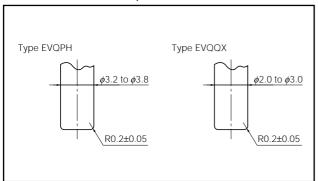
Part No.	Height	А	В	W	F	E	P ₁	P ₂	P ₀	D₀ Dia.	t ₁	t ₂
EVQPH	3.1											3.2±0.2
EVQQX	2.0	7.0±0.2	7.5±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0 ± 0.1	$1.5^{+0.1}_{-0}$	0.30 ± 0.05	2.2±0.2
	2.5/3.1											3.2±0.2

Standard Reel Dimensions in mm (not to scale)



Item	Α	В	С	D	E
Rate (mm)	ϕ 370.0±2.0	φ50.0 min.	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

