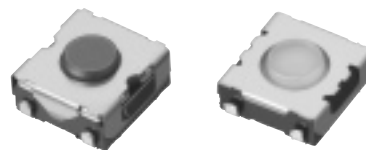


Surface Mount Light Touch Switches with Knob for Reflow Soldering

Type: **EVQPH/EVQQW**

Japan



Surface-mount type with a push button

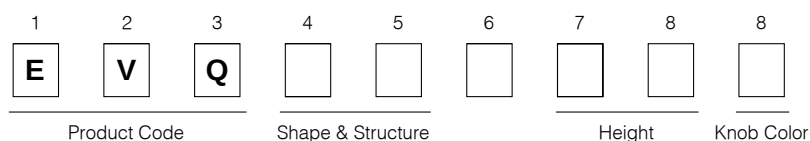
■ Features

- Easy operation type with knob
- Reflow soldering available
- Wide product variety: With or without ground terminal, height, operating force

■ Recommended Applications

- Operating button switches for Camcorders, Headphone Stereos.
- Operating signal input switches for Communication Equipments.

■ Explanation of Part Numbers



■ Product Chart

Type with Knob	Soldering		Reflow soldering			
			Without sealing film		With sealing film	
	Packaging		Taping L=2.0, 2.5, 3.1 mm		Taping L=3.1 mm	
Profile 	Ground terminal		Without	With	Without	With
	Operating Force	1.3 N	EVQQWP	EVQQWM	EVQPHP	EVQPHL
		1.6 N	EVQQWS	EVQQWN	EVQPHV	EVQPHN
		2.6 N	EVQQWT	EVQQWK	EVQPHU	EVQPHK

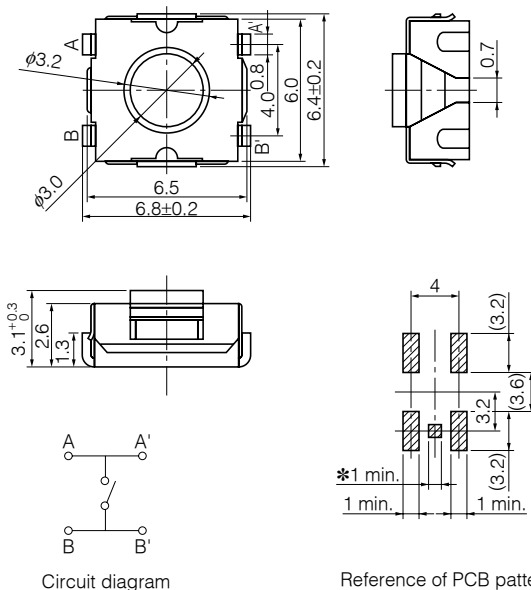
■ Major Specifications

Type	Snap action / Push-on type SPST			
Electrical	Rating		20 mA 15 Vdc max.	
	Contact Resistance		50 mΩ max.	
	Insulation Resistance		50 mΩ min. (at 100Vdc)	
	Dielectric Withstanding 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.
		EVQQW	1000000 cycles min.	100000 cycles min.
	Operating Temperature		-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. (Reel Pack)
			H=2.5 mm, 3.1 mm	2000 pcs. (Reel Pack)
Quantity/Carton			H=2.0 mm	20000 pcs.
			H=2.5 mm, 3.1 mm	10000 pcs.

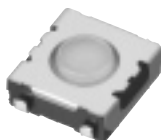
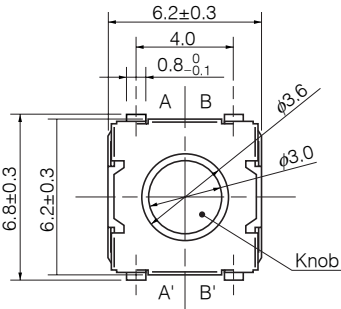
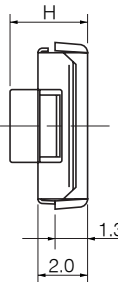
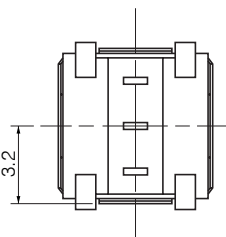
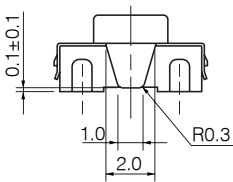
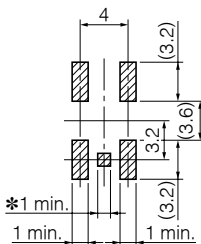
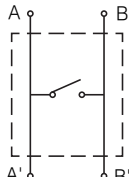
Note: Non washable

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

■ Dimensions in mm (not to scale)

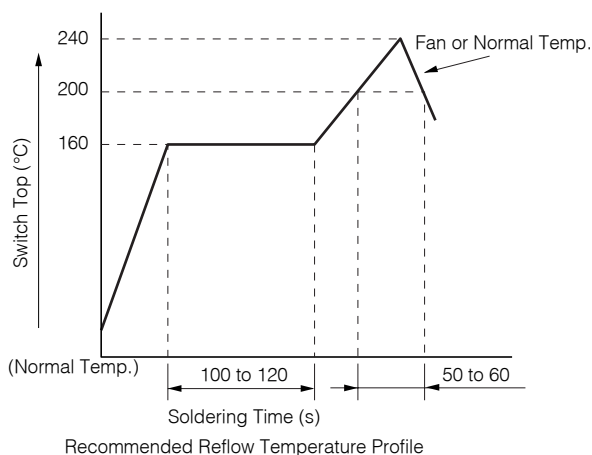
No. 1 Japan EVQPH (Embossed Taping) With knob Surface mount For reflow soldering Without ground terminal Notes: 1. Non-washable in solvents 2. Types with ground terminal available 	Registered by EIAJ-SMD Outline Registration System  Circuit diagram Reference of PCB pattern * This land not necessary when a ground terminal is not used.				
Part Numbers	Operating Force	Height	Knob 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
EVQPHN03T	1.6 N	3.1 mm	Brown	With	100000 cycles
EVQPHK03T	2.6 N	3.1 mm	Brown	With	50000 cycles

■ Dimensions in mm (not to scale)

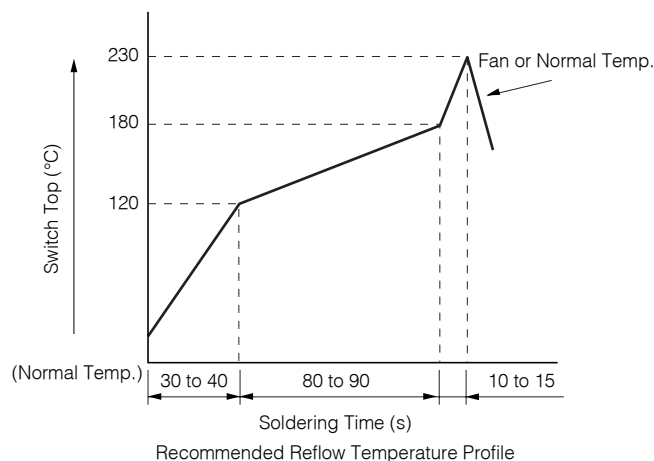
No. 2 Japan EVQQW (Embossed Taping) With knob Surface mount For reflow soldering With ground terminal Notes: 1. Non-washable in solvents 2. Types with ground terminal available 	     Reference of PCB pattern  Circuit Diagram <table><tr><th>Height</th></tr><tr><td>H</td></tr><tr><td>2.0±0.2</td></tr><tr><td>2.5±0.2</td></tr><tr><td>3.1^{+0.3}_{-0.1}</td></tr></table> * This land not necessary when a ground terminal is not used.	Height	H	2.0±0.2	2.5±0.2	3.1 ^{+0.3} _{-0.1}
Height						
H						
2.0±0.2						
2.5±0.2						
3.1 ^{+0.3} _{-0.1}						
Part Numbers	Operating Force	Height	Knob Color	Ground Terminal	Operating Life	
EVQQWP01W	1.3 N	2.0 mm	White	Without	100000 cycles	
EVQQWP02W	1.3 N	2.5 mm	White	Without	100000 cycles	
EVQQWP03W	1.3 N	3.1 mm	White	Without	100000 cycles	
EVQQWS01W	1.6 N	2.0 mm	White	Without	100000 cycles	
EVQQWS02W	1.6 N	2.5 mm	White	Without	100000 cycles	
EVQQWS03W	1.6 N	3.1 mm	White	Without	100000 cycles	
EVQQWT01W	2.6 N	2.0 mm	White	Without	10000 cycles	
EVQQWT02W	2.6 N	2.5 mm	White	Without	10000 cycles	
EVQQWT03W	2.6 N	3.1 mm	White	Without	10000 cycles	
EVQQWM01W	1.3 N	2.0 mm	White	With	100000 cycles	
EVQQWM02W	1.3 N	2.5 mm	White	With	100000 cycles	
EVQQWM03W	1.3 N	3.1 mm	White	With	100000 cycles	
EVQQWN01W	1.6 N	2.0 mm	White	With	100000 cycles	
EVQQWN02W	1.6 N	2.5 mm	White	With	100000 cycles	
EVQQWN03W	1.6 N	3.1 mm	White	With	100000 cycles	
EVQQWK01W	2.6 N	2.0 mm	White	With	10000 cycles	
EVQQWK02W	2.6 N	2.5 mm	White	With	10000 cycles	
EVQQWK03W	2.6 N	3.1 mm	White	With	10000 cycles	

Recommended Reflow Soldering Conditions

● Type PH

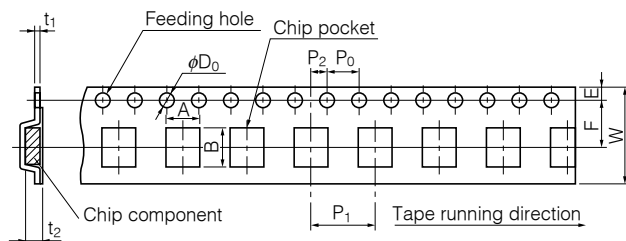


● Type QW



● Embossed Carrier Taping

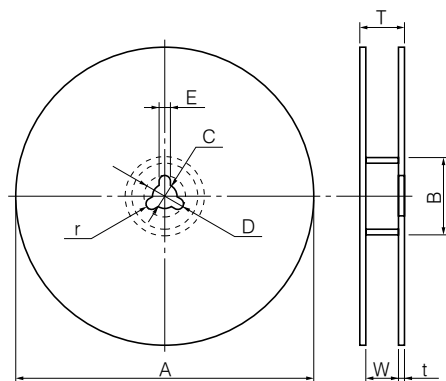
Tape width=12.0 mm



Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQPH	3.1	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	3.2±0.2
EVQQW	2.0											2.2±0.2
	2.5/3.1											3.2±0.2

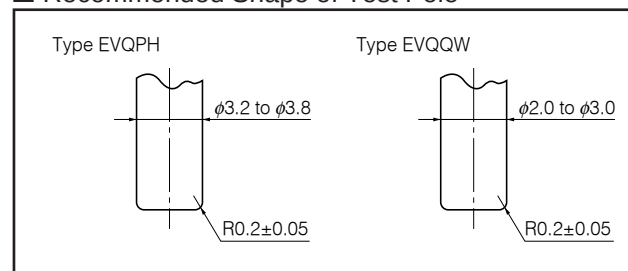
● Standard Reel Dimensions in mm (not to scale)



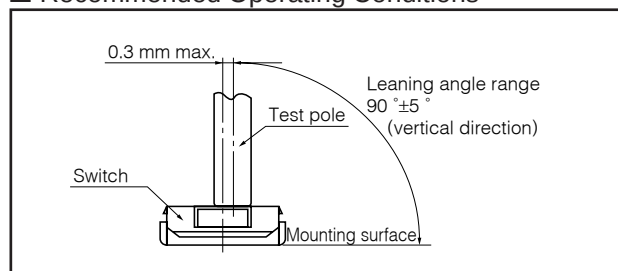
Item	A	B	C	D	E
Rate (mm)	$\phi 370.0 \pm 2.0$	$\phi 50.0$ min.	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	2.0±0.5

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

Recommended Shape of Test Pole



Recommended Operating Conditions



AMEYA360

Components Supply Platform

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