4.7 mm×3.5 mm SMD Light Touch Switches

Type: **EVQP2/EVQP9/EVQ3P2**

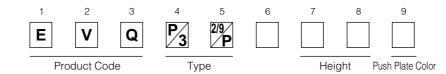
Features

- External dimensions : 4.7 mm×3.5 mm, Height : Middle Push Travel 2.5 mm
 - Short Push Travel 2.1 mm, 2.5 mm
- High operating force and long operational life
- High mountability with J-bent (4 terminals)

Recommended Applications

- Keyless entry systems (automotive)
- Car audio equipment

Explanation of Part Numbers

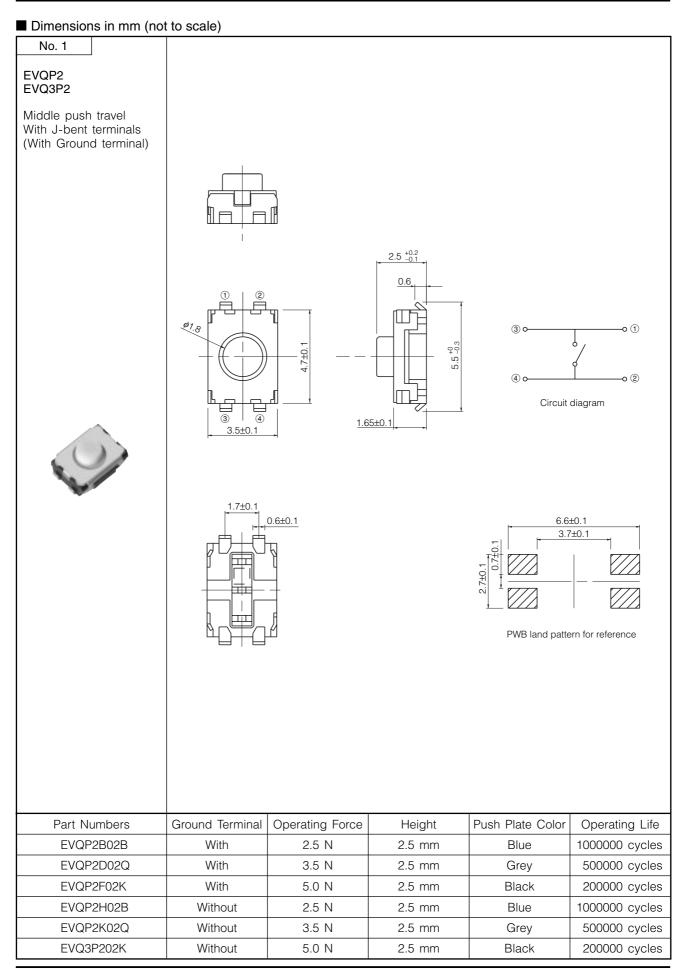


Specifications

		1			
	Middle Push Travel	Short Push Travel			
	Snap action / Push-on type SPST				
Rating	10 µA 2 Vdc to 20 mA 15 Vdc (Resistive load)				
Contact Resistance	100 mΩ max.				
Insulation Resistance	100 M Ω min.				
Dielectric Withstanding Voltage	250 Vac (1 minute)				
Bouncing	10 ms max. (ON, OFF)				
Operating Force	2.5 N, 3.5 N, 5.0 N	1.0 N, 1.6 N, 2.4 N, 3.5 N, 5.0 N			
Travel	0.70 mm±0.20 mm	0.25 mm ^{+0.05} _{-0.15} mm			
Operating Life	2.5 N:1000000 cycles min. 3.5 N: 500000 cycles min. 5.0 N: 200000 cycles min.	1.0 N, 1.6 N: 1000000 cycles min. 2.4 N: 500000 cycles min. 3.5 N: 200000 cycles min. 5.0 N: 200000 cycles min.			
nperature	-40 °C to +85 °C				
erature	-40 °C to +85 °C (Bulk) -20 °C to +60 °C (Taping)				
ntity/Packing Unit	4000 pcs. Embossed Taping (Reel Pack)				
on	20000 pcs.				
	Contact Resistance Insulation Resistance Dielectric Withstanding Voltage Bouncing Operating Force Travel Operating Life erature erature	Middle Push TravelSnap action / PuRating10 µA 2 Vdc to 20 mAContact Resistance100 mInsulation Resistance100 MDielectric Withstanding Voltage250 VacBouncing10 ms maxOperating Force2.5 N, 3.5 N, 5.0 NTravel0.70 mm±0.20 mmOperating Life2.5 N: 1000000 cycles min. 5.0 N: 200000 cycles min. 5.0 N: 200000 cycles min.mperature-40 °C to + -20 °C to + mtity/Packing Unit			



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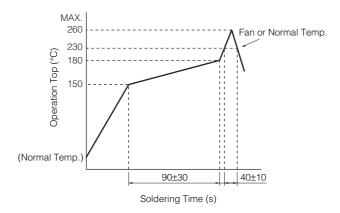
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Dimensions in mm (not to scale)

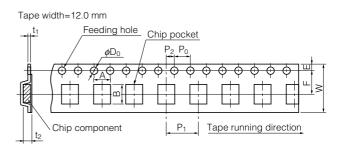
Dimensions in mm (no						
No. 2	1.6	1				
EVQP2					Н	
Short push travel With J-bent terminals (With Ground terminal)				-	2.1 ^{+0.2} _{-0.1} 2.5 ^{+0.2} _{-0.1}	
			H 0.6 1.65±0.1	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c	• ① ∕ • ② gram	
				-	± 0.1 ± 0.1 -	
Part Numbers	Ground Terminal	Operating Force	H=Height	Push Plate Color	Operating Life	
EVQP2P02M	With	1.0 N	2.1 mm	Natural	1000000 cycles	
EVQP2P02W	With	1.0 N	2.5 mm	Natural	1000000 cycles	
EVQP2R02M	With	1.6 N	2.1 mm	Natural	1000000 cycles	
EVQP2R02W	With	1.6 N	2.5 mm	Natural	1000000 cycles	
EVQP2T02M	With	2.4 N	2.1 mm	Natural	500000 cycles	
EVQP2T02W	With	With 2.4 N		Natural	500000 cycles	
EVQP2V02M	With	3.5 N	2.1 mm	Natural	200000 cycles	
EVQP2V02W	With	3.5 N	2.5 mm	Natural	200000 cycles	
EVQP2002M	Without	1.0 N	2.1 mm	Natural	1000000 cycles	
EVQP2002W	Without	1.0 N	2.5 mm	Natural	1000000 cycles	
EVQP2202M	Without	1.6 N	2.1 mm	Natural	1000000 cycles	
EVQP2202W	Without	1.6 N	2.5 mm	Natural	1000000 cycles	
EVQP2402M	Without	2.4 N	2.1 mm	Natural	500000 cycles	
EVQP2402W	Without	2.4 N	2.5 mm	Natural	500000 cycles	
EVQP2602M	Without	3.5 N	2.1 mm	Natural	200000 cycles	
EVQP2602W	Without	3.5 N	2.5 mm	Natural	200000 cycles	
EVQP9H02M	With	5.0 N	2.3 mm 2.1 mm	Natural	200000 cycles 200000 cycles	
EVQP9H02W	With	5.0 N	2.1 mm 2.5 mm	Natural	200000 cycles 200000 cycles	
					-	
EVQP9P02M EVQP9P02W	Without Without	5.0 N 5.0 N	2.1 mm 2.5 mm	Natural Natural	200000 cycles 200000 cycles	
	I WILLIUUL	0.0 N	2.011111	Ι Ιναιμιαι		

Panasonic

Recommended Reflow Soldering Conditions



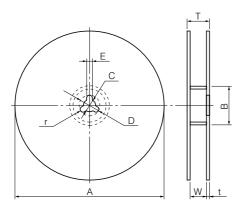
• Embossed Carrier Taping



Unit: mm

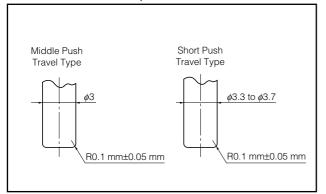
Part No.	Height	A	В	W	F	E	P1	P ₂	Po	D₀ Dia.	t1	t2
EVQP2 EVQP9 EVQ3P2	2.1 2.5	6.0±0.2	4.7±0.2	12.0±0.3	5.5±0.1	1.75±0.10	8.0±0.1	2.0±0.1	4.0±0.1	1.5 ^{+0.1}	0.3±0.1	2.7±0.2

• Standard Reel Dimensions in mm (not to scale)



Item	А	В	С	D	E
Rate (mm)	\$\$70.0±2.0	<i>ø</i> 50.0 min.	<i>ф</i> 13.0±0.5	<i>ф</i> 21.0±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

