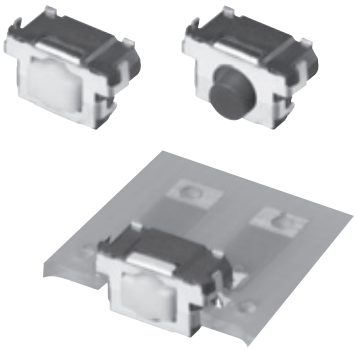
EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

6.2 mm×2.5 mm Side-operational Edge Mount Light Touch Switches

Type: **EVQP4**



■ Features

- External dimensions : 6.2 mm×2.55 mm (Excluding the push plate), Height 3.5 mm (Printed circuit board being as low as 1.35 mm)
- Side-operational Middle Travel (0.7 mm) with a high operating force (5.0 N)
- Improved soldering strength in the operating direction when mounted on PC board edge

■ Recommended Applications

- Operation switches for portable electronic equipment (Mobile phones, Digital still cameras, Camcorders Portable audio players, etc.)
- Keyless entry (car electronics)
- Car audio equipment

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9
E	V	Q	P	4		B	3	
Product Code			Type		Operating Force			Push Plate Color

■ Specifications

Travel Type		Middle Travel	Short Travel
Type		Snap action / Push-on type SPST	
Electrical	Rating	10 µA 2 V DC to 20 mA 15 V DC (Resistive load)	
	Contact Resistance	100 mΩ max.	
	Insulation Resistance	100 MΩ min. (at 100 V DC)	
	Dielectric Withstanding Voltage	250 V AC for 1 minute	
	Bouncing	10 ms max. (ON, OFF)	
Mechanical	Operating Force	2.5 N, 3.5 N, 5.0 N	1.0 N, 1.6 N, 2.4 N, 3.5 N
	Travel	0.70 mm±0.2 mm	0.25 mm $^{+0.05}_{-0.15}$ mm
	Push Strength	50 N (1 minute)	
Endurance	Operating Life	2.5 N: 1,000,000 cycles min. 3.5 N: 500,000 cycles min. 5.0 N: 200,000 cycles min.	1.0 N, 1.6 N: 1,000,000 cycles min. 2.4 N: 500,000 cycles min. 3.5 N: 200,000 cycles min.
Operating Temperature		−40 °C to +85 °C	
Storage Temperature		−40 °C to +85 °C (Bulk) −20 °C to +60 °C (Taping)	
Minimum Quantity/Packing Unit		2,500 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton		12,500 pcs.	

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
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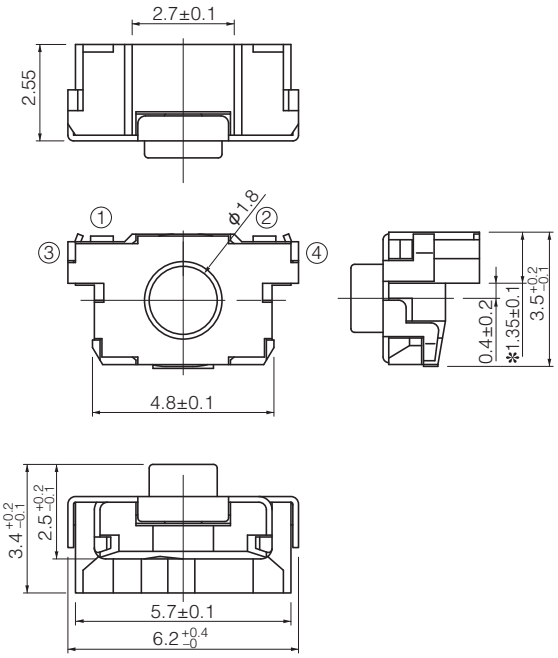
■ Dimensions in mm (not to scale)

No. 1

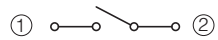
EVQP4

Middle travel

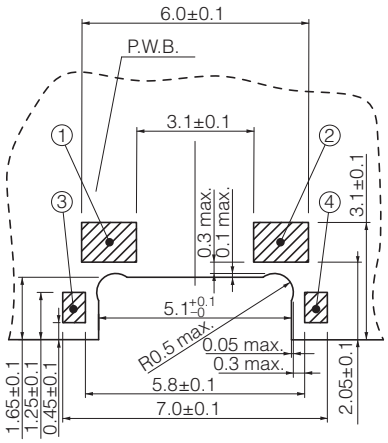




General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.



Circuit diagram



PWB land pattern for reference

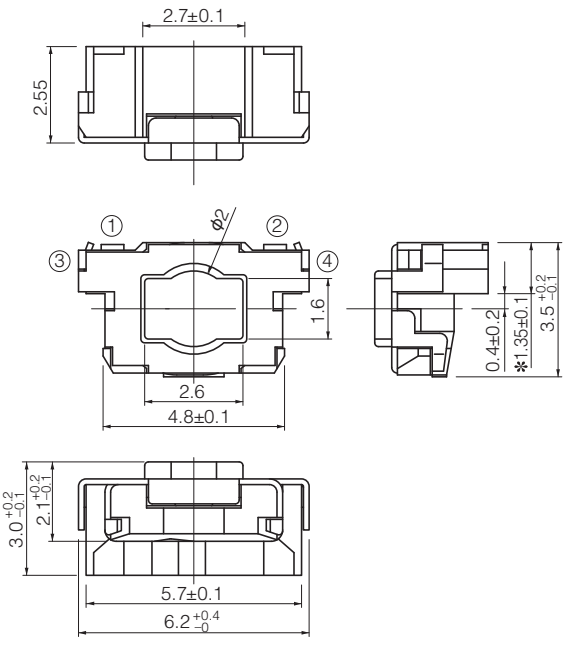
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP4HB3B	2.5 N	3.5 mm	Blue	1,000,000 cycles
EVQP4KB3Q	3.5 N	3.5 mm	Gray	500,000 cycles
EVQP4MB3K	5.0 N	3.5 mm	Black	200,000 cycles

No. 2

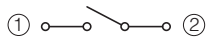
EVQP4

Short travel

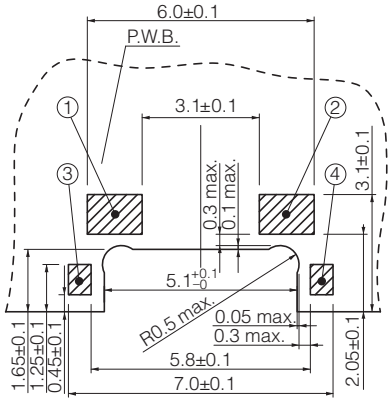




General dimension tolerance : ± 0.2
( )dimensions are reference dimensions.



Circuit diagram



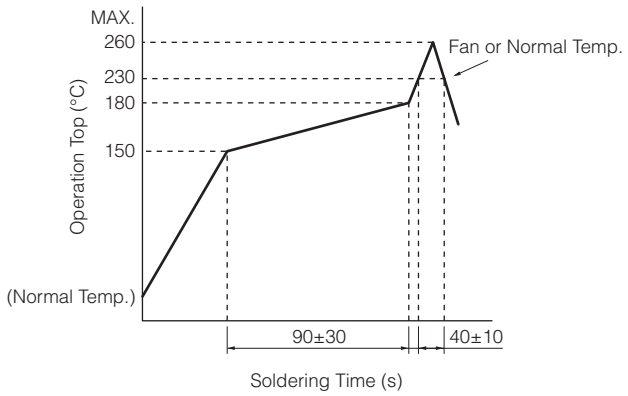
PWB land pattern for reference

Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQP40B3M	1.0 N	3.5 mm	Natural	1,000,000 cycles
EVQP42B3M	1.6 N	3.5 mm	Natural	1,000,000 cycles
EVQP44B3M	2.4 N	3.5 mm	Natural	500,000 cycles
EVQP46B3M	3.5 N	3.5 mm	Natural	200,000 cycles

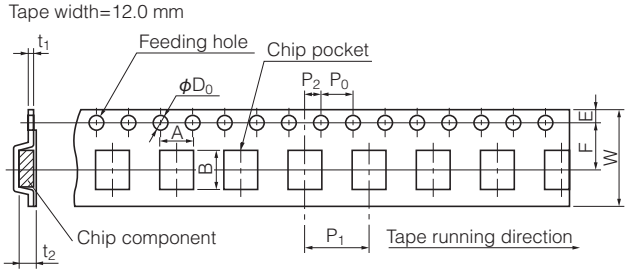
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■ Recommended Reflow Soldering Conditions



● Embossed Carrier Taping



Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
Joint of carrier tape : One joint per one reel may exist.

Unit: mm

Part No.	Height	A	B	W	F	E	P_1	P_2	P_0	D_0 Dia.	t_1	t_2
EVQP4	3.5	6.5±0.2	3.9±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	$1.5^{+0.1}_{-0}$	0.4±0.1	3.75±0.20

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