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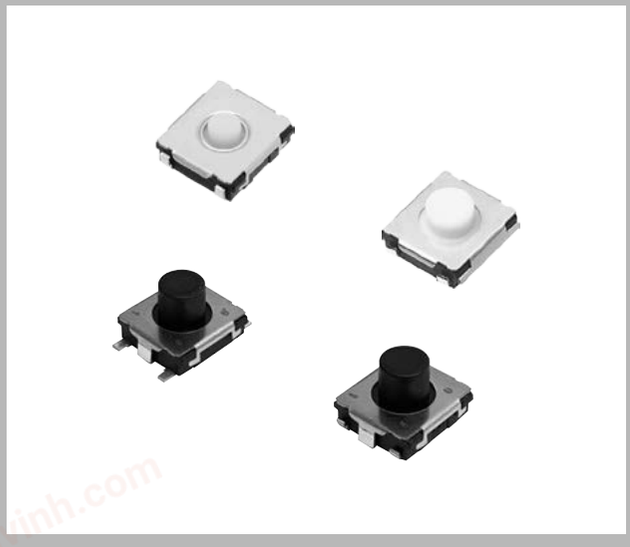
Panasonic INDUSTRY

Tactile Switches

RoHS

6 mm Square Thin Type SMD

Type EVQP0, EVQQ2, EVQ6Q2, EVQ7Q2, EVPBT



FEATURES

- External dimensions : 6.5 mm × 6.0 mm, Height 1.8 mm (Excluding the push plate)
- With or without ground terminal, height, operating force
- Overstroke travel

RECOMMENDED APPLICATIONS

- Operating switches for other electronic equipment
- Operation switches for PC mouse
- Game

EXPLANATION OF PART NO.

1	2	3	4	5	6	7	8	9
E	V	Q	P/Q/7	0/2/Q				

Product Code | Type Operating Force Ground Terminal | Product Height | Push Plate Color

Height:4.3mm

1	2	3	4	5	6	7	8	9	10	11	12
E	V	P	B	T					0	0	0

Product Code | Operation Force | Type・Ground Terminal | Product Height・Plate color

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Tactile Switches EVQP0, Q2, 6Q2, 7Q2, EVPBT

SPECIFICATIONS

■ Characteristics

Travel Type		Short Push Travel	Overstroke 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	Max. 100 mΩ	
	Insulation Resistance	Min. 100 MΩ (at 100 V DC)	
	Dielectric Withstanding Voltage	250 V AC for 1 minute	
	Bouncing	Max. 10 ms (ON, OFF)	
Mechanical	Operating Force	0.5 N, 0.8 N, 1.0 N, 1.3 N,1.6 N, 2.6 N, 3.5 N	0.6 N, 1.0 N
	Travel	0.5 N, 0.8 N, 1.0 N 0.2 mm 1.3 N, 1.6 N, 2.6 N, 3.5 N 0.25 mm	0.3 mm
Endurance	Operating Life	0.5 N, 0.8 N : Min. 2,000,000 cycles 1.0 N, 1.3 N, 1.6 N : Min. 1,000,000 cycles 2.6 N : Min. 200,000 cycles 3.5 N : Min. 100,000 cycles	0.6 N: Min. 2,000,000 cycles 1.0 N: Min. 1,000,000 cycles
Operating Temperature		−40℃ to +85℃	
Storage Temperature		−40℃ to +85℃ (Bulk) −20℃ to +60℃ (Taping)	
Minimum Quantity / Packing Unit		H = 2.0 mm 4,000 pcs.	Embossed Taping (Reel Pack)
		H = 2.5 mm, 3.1 mm, 4.3 mm 2,000 pcs.	Embossed Taping (Reel Pack)
Quantity / Carton		H = 2.0 mm 20,000 pcs.	
		H = 2.5 mm, 3.1 mm, 4.3 mm 10,000 pcs.	

Note: Non washable

DIMENSIONS

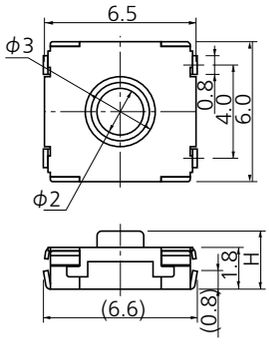
CAD The CAD data of the products with a "CAD" mark can be downloaded from our Website. Unit: mm

■ EVQP0

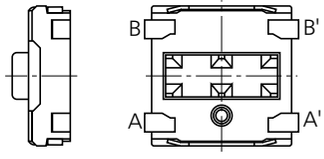
Overstroke travel
With J-bent terminals
Without
Ground Terminal



CAD

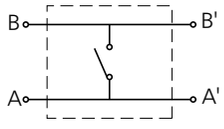


External dimensions

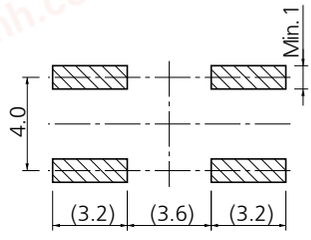


(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



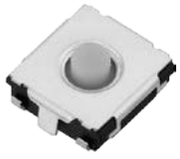
Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQP0N02B	0.6 N	2.5 mm	Blue	Without	2,000,000 cycles
EVQP0Q02Q	1.0 N	2.5 mm	Gray		1,000,000 cycles

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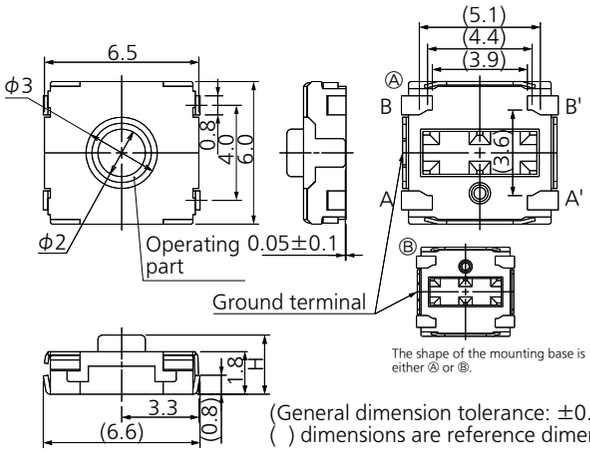
■ EVQP0

Overstroke travel
With J-bent terminals
With
Ground Terminal



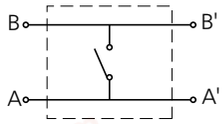
CAD

External dimensions

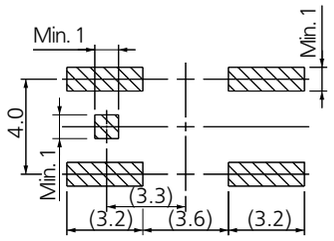


(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQP0P02B	0.6 N	2.5 mm	Blue	With	2,000,000 cycles
EVQP0S02Q	1.0 N	2.5 mm	Gray		1,000,000 cycles

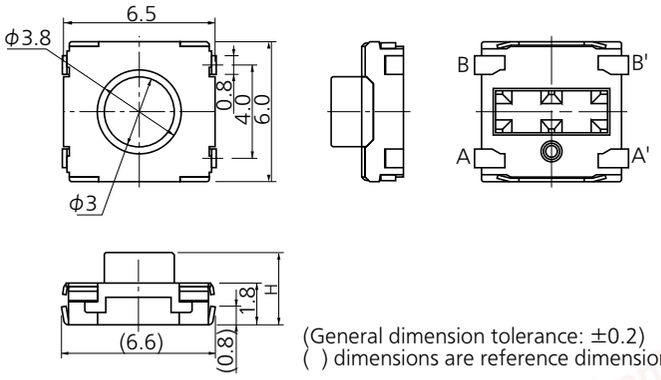
■ EVQQ2/6Q2

Short travel
With J-bent terminals
Without
Ground Terminal



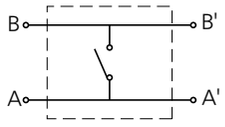
CAD

External dimensions

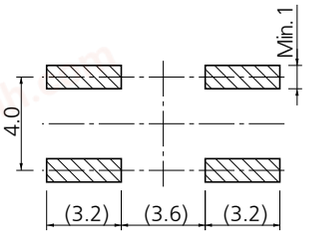


(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQQ2B01W	0.5 N	2.0 mm	White	Without	2,000,000 cycles
EVQQ2B02W	0.5 N	2.5 mm			2,000,000 cycles
EVQQ2B03W	0.5 N	3.1 mm			2,000,000 cycles
EVQ6Q201W	0.8 N	2.0 mm			2,000,000 cycles
EVQ6Q202W	0.8 N	2.5 mm			2,000,000 cycles
EVQ6Q203W	0.8 N	3.1 mm			2,000,000 cycles
EVQQ2F01W	1.0 N	2.0 mm			1,000,000 cycles
EVQQ2F02W	1.0 N	2.5 mm			1,000,000 cycles
EVQQ2F03W	1.0 N	3.1 mm			1,000,000 cycles
EVQQ2K01W	1.3 N	2.0 mm			1,000,000 cycles
EVQQ2K02W	1.3 N	2.5 mm			1,000,000 cycles
EVQQ2K03W	1.3 N	3.1 mm			1,000,000 cycles
EVQQ2P01W	1.6 N	2.0 mm			1,000,000 cycles
EVQQ2P02W	1.6 N	2.5 mm			1,000,000 cycles
EVQQ2P03W	1.6 N	3.1 mm			1,000,000 cycles
EVQQ2U01W	2.6 N	2.0 mm			200,000 cycles
EVQQ2U02W	2.6 N	2.5 mm			200,000 cycles
EVQQ2U03W	2.6 N	3.1 mm			200,000 cycles
EVQQ2Y01W	3.5 N	2.0 mm			100,000 cycles
EVQQ2Y02W	3.5 N	2.5 mm			100,000 cycles
EVQQ2Y03W	3.5 N	3.1 mm			100,000 cycles

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Tactile Switches EVQP0, Q2, 6Q2, 7Q2, EVPBT

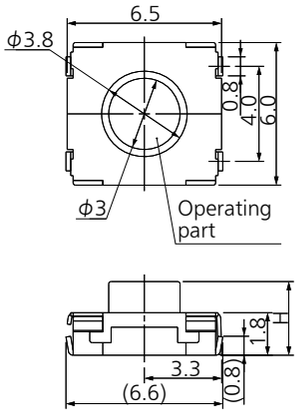
■ EVQQ2/7Q2

Short travel
With J-bent terminals
With
Ground Terminal



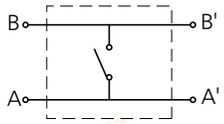
CAD

External dimensions

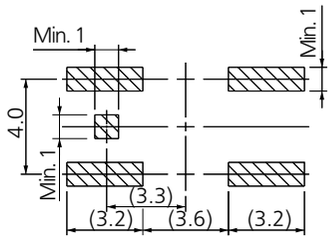


(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVQQ2D01W	0.5 N	2.0 mm	White	With	2,000,000 cycles
EVQQ2D02W	0.5 N	2.5 mm			2,000,000 cycles
EVQQ2D03W	0.5 N	3.1 mm			2,000,000 cycles
EVQ7Q201W	0.8 N	2.0 mm			2,000,000 cycles
EVQ7Q202W	0.8 N	2.5 mm			2,000,000 cycles
EVQ7Q203W	0.8 N	3.1 mm			2,000,000 cycles
EVQQ2H01W	1.0 N	2.0 mm			1,000,000 cycles
EVQQ2H02W	1.0 N	2.5 mm			1,000,000 cycles
EVQQ2H03W	1.0 N	3.1 mm			1,000,000 cycles
EVQQ2M01W	1.3 N	2.0 mm			1,000,000 cycles
EVQQ2M02W	1.3 N	2.5 mm			1,000,000 cycles
EVQQ2M03W	1.3 N	3.1 mm			1,000,000 cycles
EVQQ2S01W	1.6 N	2.0 mm			1,000,000 cycles
EVQQ2S02W	1.6 N	2.5 mm			1,000,000 cycles
EVQQ2S03W	1.6 N	3.1 mm			1,000,000 cycles
EVQQ2W01W	2.6 N	2.0 mm			200,000 cycles
EVQQ2W02W	2.6 N	2.5 mm			200,000 cycles
EVQQ2W03W	2.6 N	3.1 mm			200,000 cycles
EVQQ2201W	3.5 N	2.0 mm			100,000 cycles
EVQQ2202W	3.5 N	2.5 mm			100,000 cycles
EVQQ2203W	3.5 N	3.1 mm			100,000 cycles

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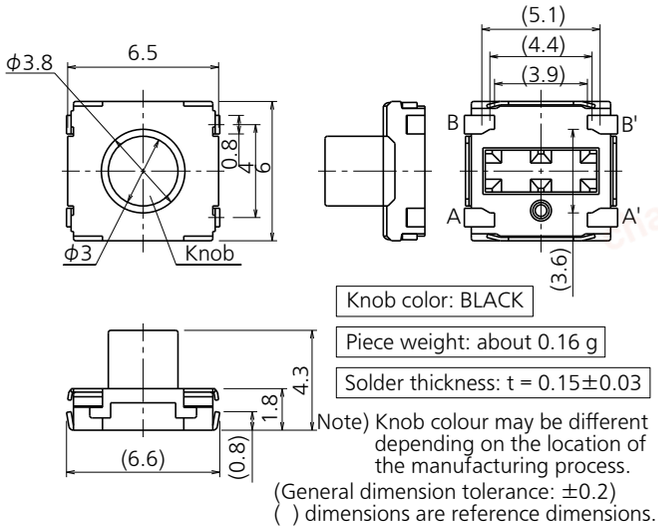
■ EVPBT

Short travel
With J-bent terminals
Without
Ground Terminal



CAD

External dimensions



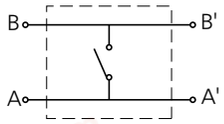
Knob color: BLACK

Piece weight: about 0.16 g

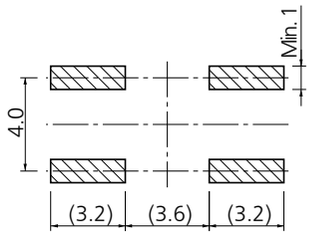
Solder thickness: t = 0.15±0.03

Note) Knob colour may be different depending on the location of the manufacturing process.
(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVPBT1C4A000	0.5 N	4.3 mm	Black	Without	2,000,000 cycles
EVPBT2C4A000	0.8 N	4.3 mm			2,000,000 cycles
EVPBT3C4A000	1.0 N	4.3 mm			1,000,000 cycles
EVPBT4C4A000	1.3 N	4.3 mm			1,000,000 cycles
EVPBT5C4A000	1.6 N	4.3 mm			1,000,000 cycles
EVPBT6C4A000	2.6 N	4.3 mm			200,000 cycles
EVPBT7C4A000	3.5 N	4.3 mm			100,000 cycles

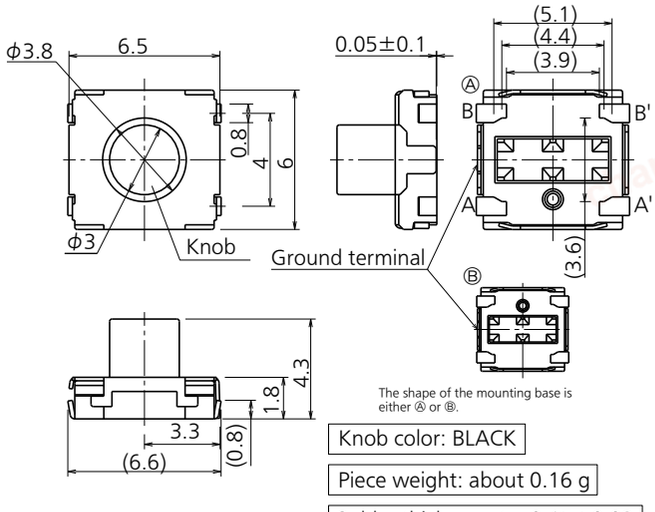
■ EVPBT

Short travel
With J-bent terminals
With
Ground Termina



CAD

External dimensions



The shape of the mounting base is either Ⓐ or Ⓑ.

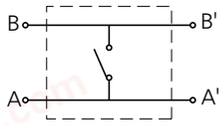
Knob color: BLACK

Piece weight: about 0.16 g

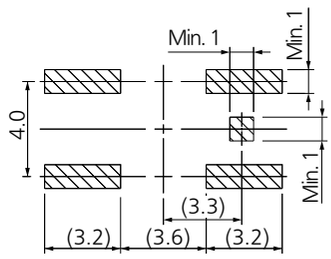
Solder thickness: t = 0.15±0.03

Note) Knob colour may be different depending on the location of the manufacturing process.
(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVPBT1J4A000	0.5 N	4.3 mm	Black	With	2,000,000 cycles
EVPBT2J4A000	0.8 N	4.3 mm			2,000,000 cycles
EVPBT3J4A000	1.0 N	4.3 mm			1,000,000 cycles
EVPBT4J4A000	1.3 N	4.3 mm			1,000,000 cycles
EVPBT5J4A000	1.6 N	4.3 mm			1,000,000 cycles
EVPBT6J4A000	2.6 N	4.3 mm			200,000 cycles
EVPBT7J4A000	3.5 N	4.3 mm			100,000 cycles

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Tactile Switches EVQP0, Q2, 6Q2, 7Q2, EVPBT

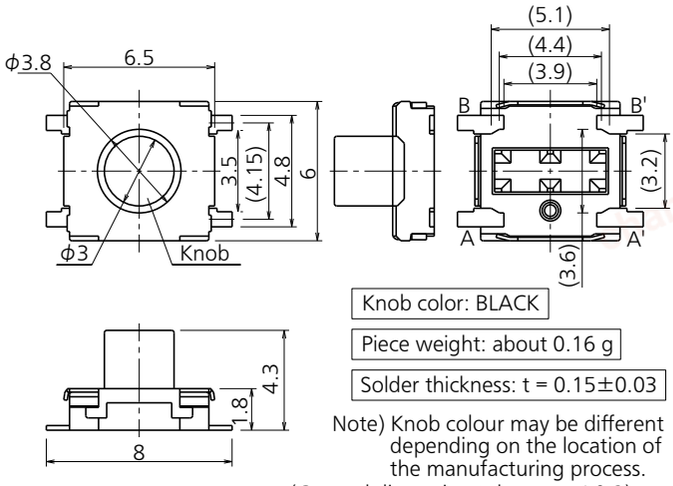
■ EVPBT

Short travel
With straight terminals
Without
Ground Terminal



CAD

External dimensions



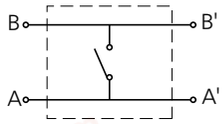
Knob color: BLACK

Piece weight: about 0.16 g

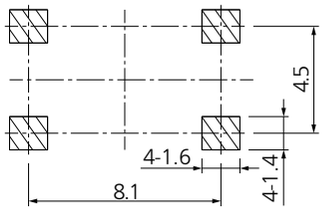
Solder thickness: t = 0.15±0.03

Note) Knob colour may be different depending on the location of the manufacturing process.
(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVPBT1A4A000	0.5 N	4.3 mm	Black	Without	2,000,000 cycles
EVPBT2A4A000	0.8 N	4.3 mm			2,000,000 cycles
EVPBT3A4A000	1.0 N	4.3 mm			1,000,000 cycles
EVPBT4A4A000	1.3 N	4.3 mm			1,000,000 cycles
EVPBT5A4A000	1.6 N	4.3 mm			1,000,000 cycles
EVPBT6A4A000	2.6 N	4.3 mm			200,000 cycles
EVPBT7A4A000	3.5 N	4.3 mm			100,000 cycles

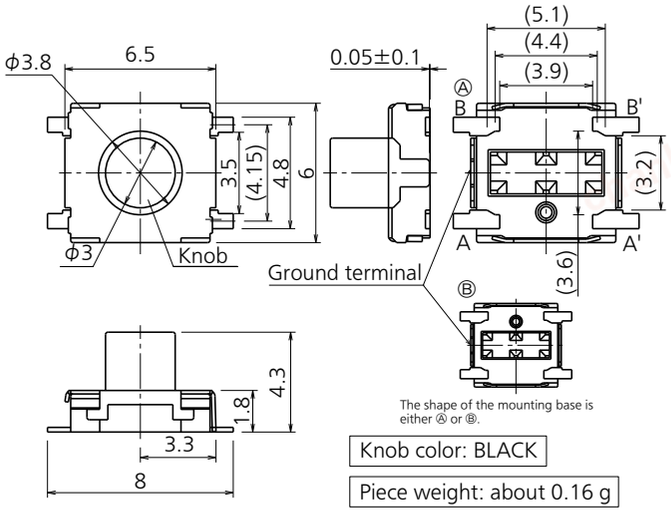
■ EVPBT

Short travel
With straight terminals
With
Ground Terminal



CAD

External dimensions



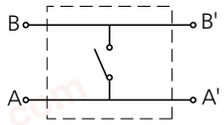
Knob color: BLACK

Piece weight: about 0.16 g

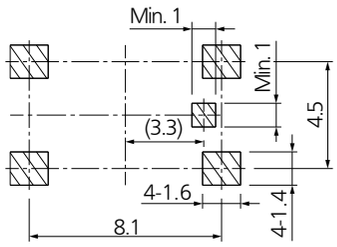
Solder thickness: t = 0.15±0.03

Note) Knob colour may be different depending on the location of the manufacturing process.
(General dimension tolerance: ±0.2)
( ) dimensions are reference dimensions.

Circuit diagram



PWB land pattern for reference



Part Numbers	Operating Force	H=Height	Push Plate Color	Ground Terminal	Operating Life
EVPBT1G4A000	0.5 N	4.3 mm	Black	With	2,000,000 cycles
EVPBT2G4A000	0.8 N	4.3 mm			2,000,000 cycles
EVPBT3G4A000	1.0 N	4.3 mm			1,000,000 cycles
EVPBT4G4A000	1.3 N	4.3 mm			1,000,000 cycles
EVPBT5G4A000	1.6 N	4.3 mm			1,000,000 cycles
EVPBT6G4A000	2.6 N	4.3 mm			200,000 cycles
EVPBT7G4A000	3.5 N	4.3 mm			100,000 cycles

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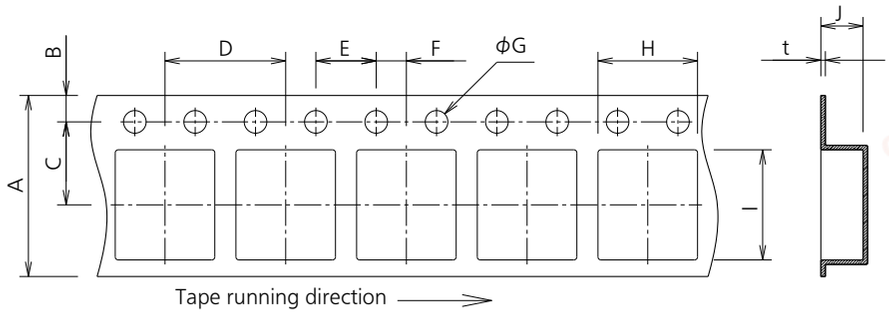
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EMBOSSED TAPE DIMENSIONS

Unit: mm

■ Specifications for taping

● Part Numbers: EVQP0 / Height: 2.5 mm

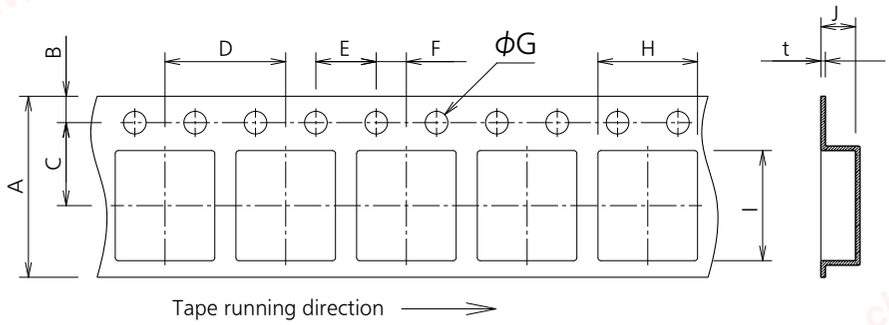


Note) 1: Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
2: Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
3: Joint of carrier tape: One joint per one reel may exist.

Unit: mm

A	B	C	D	E	F	G	H	I	J	t
12 ±0.3	1.75 ±0.1	5.5 ±0.1	8 ±0.1	4 ±0.1	2 ±0.1	$1.5^{+0.1}_{-0}$	6.7 ±0.2	7.4 ±0.2	2.8 ±0.2	0.3 ±0.05

● Part Numbers: EVQQ2 / Height: 2.0 mm
EVQ6Q2 2.0 mm
EVQ7Q2 2.0 mm



Note) 1: Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
2: Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
3: Joint of carrier tape: One joint per one reel may exist.

Unit: mm

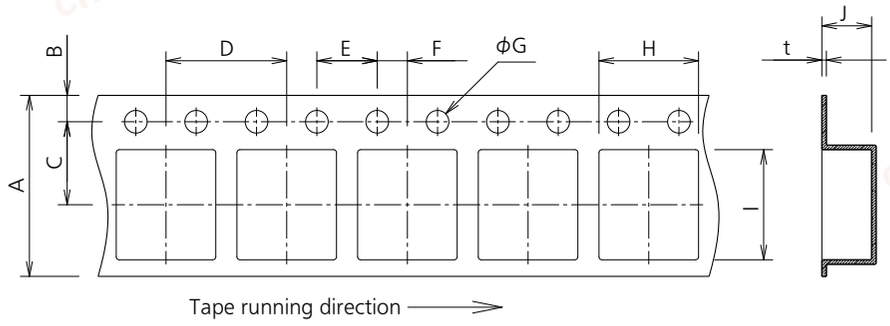
A	B	C	D	E	F	G	H	I	J	t
12 ±0.3	1.75 ±0.1	5.5 ±0.1	8 ±0.1	4 ±0.1	2 ±0.1	$1.5^{+0.1}_{-0}$	6.7 ±0.2	7.4 ±0.2	2.2 ±0.2	0.3 ±0.05

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Tactile Switches EVQP0, Q2, 6Q2, 7Q2, EVPBT

● Part Numbers: EVQQ2 / Height: 2.5, 3.1 mm
EVQ6Q2 2.5, 3.1 mm
EVQ7Q2 2.5, 3.1 mm



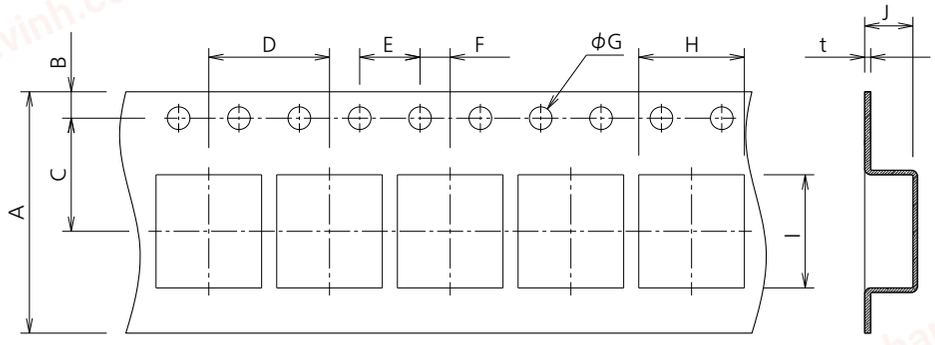
Tape running direction ⟶

Note) 1: Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
2: Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
3: Joint of carrier tape: One joint per one reel may exist.

Unit: mm

A	B	C	D	E	F	G	H	I	J	t
12 ±0.3	1.75 ±0.1	5.5 ±0.1	8 ±0.1	4 ±0.1	2 ±0.1	$1.5^{+0.1}_{-0}$	6.7 ±0.2	7.4 ±0.2	3.2 ±0.2	0.3 ±0.05

● Part Numbers: EVPBT With straight terminals / Height: 4.3 mm



Tape running direction ⟶

Note) 1: Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
2: Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
3: Joint of carrier tape: One joint per one reel may exist.

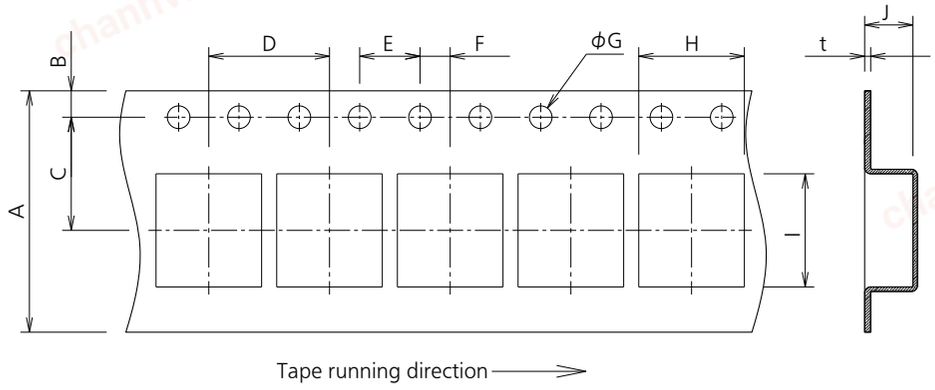
Unit: mm

A	B	C	D	E	F	G	H	I	J	t
16 ±0.3	1.75 ±0.1	7.5 ±0.1	8 ±0.1	4 ±0.1	2 ±0.1	$1.5^{+0.1}_{-0}$	6.7 ±0.2	8.3 ±0.2	4.6 ±0.2	0.4 ±0.05

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● Part Numbers: EVPBT With J-bent terminals / Height: 4.3 mm



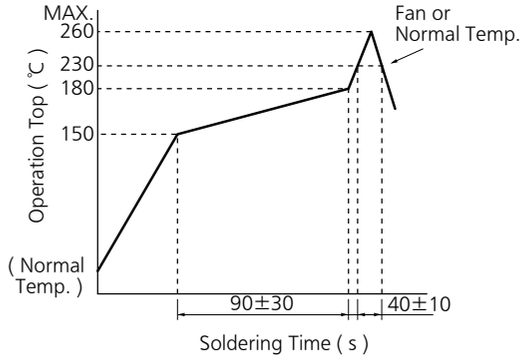
Note) 1: Peeling off strength of top tape : It should be within 0.2N to 1.0N at 165 degree in peeling off angle.
2: Taping condition : Lack of products in the middle of taping should be one MAX, but total quantity specified in the specifications should be secured.
3: Joint of carrier tape: One joint per one reel may exist.

Unit: mm

A	B	C	D	E	F	G	H	I	J	t
16 ±0.3	1.75 ±0.1	7.5 ±0.1	8 ±0.1	4 ±0.1	2 ±0.1	1.5 $^{+0.1}_{-0}$	6.7 ±0.2	7.4 ±0.2	4.6 ±0.2	0.4 ±0.05

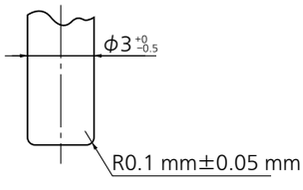
REFERENCE DATA

■ Recommended Reflow Soldering Conditions

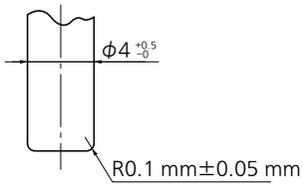


■ Recommended Shape of Test Pole Unit: mm

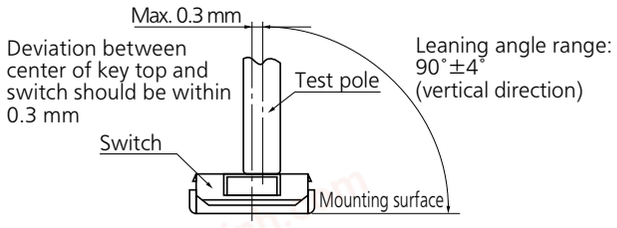
2 mm Type



2.5 mm, 3.1 mm, 4.3 mm Type



■ Recommended Operating Conditions



Design and specifi cations are each subject to change without notice. Ask factory for the current technical specifi cations before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

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Requests to customers

Specifications and warranty range of this product

The contents and data of this product and its specifications and Web site (hereinafter referred to as "specifications") are subject to change (including specifications, manufacturing facility, discontinuing products). Consequently, when you use this product for mass production, Panasonic Corporation, Electromechanical Control Business Division (hereinafter referred to as "Panasonic Corporation") asks you to contact one of our customer service representatives and check that the details listed in Web site and catalog are commensurate with the most up-to-date information.

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2) all liability including special damage, indirect or incidental damage, and all other damages,
3) all implied warranties, including the implied warranty of suitability for a particular purpose, the implied warranty of non-infringement, and the implied warranty of merchantability.

The description of suitability of a product for certain applications is based on typical requirements we may know of using our products for general purpose use.
These descriptions are not binding on the suitability of the product for a particular application. It is a customer's responsibility to verify whether or not the specific product, which has the usage rights described in the specifications exchanged with us, is suitable for use in a specific purpose. The parameters given in catalogs or specifications may vary depending on the application and performance may change over time. All operating parameters, including general parameters, must be verified by customer for each application.
The terms and conditions of purchase contract with Panasonic Corporation, including warranty contents stated in contract and any other contents, will not be expanded or modified by product specifications.
Unless explicitly stated otherwise,our products are not designed for medical described in [Safety Precautions] below, lifesaving, life support, or for any application where failure of our products may cause physical injury or death. If you use or sell our product for any purpose other than its stated use, that action is at your own responsibility.
Nothing in this document or any actions of Panasonic Corporation is permitted to enforce or use any intellectual property right, whether expressly or implicitly, and whether it is estoppel or not.

Safety precautions

Panasonic Corporation is consistently striving to improve quality and reliability. However,the fact remains that electrical components and devices generally cause failures at a given statistical probability. Furthermore, their durability varies with use environments or use conditions. In this respect, check for actual electrical components and devices under actual conditions before use. Continued usage in a state of degraded condition may cause abnormal heat, smoke or fire due to deteriorated insulation, or may cause loss of product functionality due to continuityfailure. Carry out safety design and periodic maintenance including redundancy design, design for fire spread prevention, and design for malfunction prevention so that no accidents resulting in injury or death, fire accidents, or social damage will be caused as a result of failure of the products or ending life of the products.

The products are designed and manufactured for the purpose of being used for general electronic equipment (such as AV equipment, household products, business equipment, office equipment, communication equipment) for general purpose standard applications.
Make sure standards,laws and regulations in case the products are incorporated to machinery, system, apparatus, and so forth.
With regard to the mentioned above, confirm the conformity of the Products by yourself.
Do not use the Products for the application which breakdown or malfunction of Products may cause damage to the body or property.

1) usage intended to protect the body and ensure security of life
2) application which the performance degradation or quality problems, such as breakdown, of the products may directly result in damage to the body or property

It is not allowed the use of products by incorporating into machinery and systems indicated below because the conformity,performance, and quality of products are not guaranteed under such usage.

1) transport machinery (cars, trains, boats and ships, etc.)
2) control equipment for transportation
3) disaster-prevention equipment / security equipment
4) control equipment for electric power generation
5) nuclear control system
6) aircraft equipment, aerospace equipment, and submarine repeater
7) burning appliances
8) military devices
9) medical devices (except for general controls)
10) machinery and systems which especially require the high level of reliability and safety

If you use for the above purposes without exchanging the specifications with us, we shall not guarantee any quality.

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Requests to customers

Disclaimers

We will not accept any quality guarantee, liability for damages and other claims for any reason, if you use it under specific conditions without prior consent to individual specifications. Regarding damage to life/ body/property including third party (including reasonable attorney/lawsuit costs) caused by the use of our products under specific conditions by you or a third party including your customer, in addition to being responsible for resolution, we ask you to agree that Panasonic Corporation/affiliates and the executives/employees/agents(hereinafter referred to as Panasonic Corporation) are protected, and not make us to incur cost and liability and do not claim damages to us. "Our affiliated company" means a company in which Panasonic Corporation directly or indirectly holds a majority of voting rights, or a company that directly or indirectly holds a majority of voting rights of Panasonic Corporation, and a company whose majority of voting rights are held directly or indirectly by the holder who has the majority of voting rights of Panasonic Corporation directly or indirectly.

Acceptance inspection

In connection with the products you have purchased from us or with the products delivered to your premises, please perform an acceptance inspection with all due speed and, in connection with the handling of our products both before and during the acceptance inspection, please give full consideration to the control and preservation of our products.

Warranty period

Unless otherwise stipulated by both parties, the warranty period of our products is one year after the purchase by you or after their delivery to the location specified by you. However, the period for soldering and mounting our products on substrates shall not exceed 6 months at the maximum, after purchase or after delivery to your designated location, under the storage conditions specified separately.

Scope of warranty

In the event that Panasonic Corporation confirms any failures or defects of the products by reasons solely attributable to Panasonic Corporation during the warranty period, Panasonic Corporation shall supply the replacements of the products, parts or replace and/or repair the defective portion by free of charge at the location where the products were purchased or delivered to your premises as soon as possible.
However, the following failures and defects are not covered by the warranty and we are not responsible for such failures and defects.

1) When the failure or defect was caused by a specification, standard, handling method, etc. which was specified by you.
2) When the failure or defect was caused after purchase or delivery to your premises by an alteration in construction, performance, specification, etc. which did not involve us.
3) When the failure or defect was caused by a phenomenon that could not be predicted by the technology at purchasing or contracted time.
4) When the use of our Products deviated from the scope of the conditions and environment set forth in the catalogs and specifications.
5) When, after our Products were incorporated into your products or equipment for use, damage resulted which could have been avoided if your products or equipment had been equipped with the functions, construction, etc. the provision of which is accepted practice in the industry.
6) When the failure or defect was caused by a natural disaster or other force majeure.

The above terms and conditions shall not cover any induced damages by the failure or defects of the products, and not cover your production items which are produced or fabricated by using the products, or are re-mounted after disassembly or removal from mounting substrates. In any case, our responsibility for compensation is limited to the amount paid for the products.

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Usage environment

Our products are intended for general-purpose and standard use in electronic devices, and are not designed for use in special environments shown belows.
Therefore, use and conditions in the following special environments may affect the product characteristics, please check the performance and reliability at your company before use.

1) Use in liquids such as water, oil, chemicals and organic solvents
2) Use in direct sunlight, outdoor exposure, and dust
3) Use in locations with a lot of corrosive gas such as moisture (such as condensation of resistor, water leakage), sea breeze, Cl_2, H_2S, NH_3, SO_2, NOx.
4) Use in an environment where static electricity and electromagnetic waves are strong
5) When mounting in proximity to heat-generating components or when placing flammable materials such as vinyl wiring in proximity to our products
6) When using this product after sealing with resin etc.
7) When using solvent, water or water-soluble cleaning agent for flux cleaning after soldering (be especially careful with water-soluble flux)
8) Use in an environment with acid or alkali atmosphere
9) Use in an environment where there is excessive shock or vibration

Please make sure to use the voltage below the rated voltage, when using an impact voltage circuit, a transient phenomenon in which a high voltage is applied for a short time, or when a pulsed high voltage is applied.

Product handling

In order to prevent failures and characteristic fluctuations due to external factors (electrostatic stress, overvoltage/overcurrent stress, thermal stress, mechanical stress) during product handling, mounting, and in your process, be sure to observe and use within specifications, considering the range expected for standard applications of general electronic devices.

Certificate of compliance to RoHS directive

The timing for switching to compliant RoHS varies depending on the product.
When you are using stock items and uncertain whether or not it is RoHS compliant, please contact us.

Storage

Our products may be affected by performance deterioration and performance such as solderability, so please avoid storing in the following environment and conditions.

1) Environment where temperature is -10°C or less, +40°C or more, and humidity is 85% RH or more
2) In an atmosphere of corrosive gas
3) Long-term storage of more than 6 months after product delivery
4) A place exposed to direct sunlight

- Please keep it in a packaged state so as not to apply load stress.
- Please use as soon as possible, within 3 month as a guide and up to 6 months.
- If there are remaining items after opening the packing, take appropriate measures to prevent moisture and gas before storing.

After discontinuing production

It is not possible to supply products (including supplies) after production is discontinued.

Intellectual property rights and licenses

The technical information on Web site and catalog shows the typical operation and application circuit examples of the product, so it does not mean to guarantee not to infringe the intellectual property rights of our company or a third party, or to grant licenses.

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Requests to customers

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Panasonic Corporation
Electromechanical Control Business Division
■1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan
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