# Snap-in Type

# List of Varieties

Se	ries	SKHL	SКНН	SKHW	SKQJ	SKQB	SKQE	SKHC		
Pt	noto									
Operation	on feeling				Sharp feeling					
Wate	er-proof	_	_	_	_	•	_	_		
Dust	t-proof	_	_	•	•	•	•	_		
Operating	Top push	•	•	•	•	•	•	•		
direction	Side push	•	•	_	•	•	_	_		
Ground	terminal	_	0	_	_	_	_	_		
Dimensi	ions (mm)	6.0×3.5×4.3 6.0×3.5×5.0 7.3×6.72×4.3	6.0×6.0×4.3 6.0×6.0×5.0 6.0×6.0×7.0 6.0×6.0×7.3 6.0×6.0×9.5 6.0×6.0×13.0 6.0×6.0×17.0 6.2×7.85×7.1 6.2×9.85×7.1 6.2×12.35×7.1 6.2×19.85×7.1	6.0×6.0×4.3 6.0×6.0×5.0	6.6×6.6×5.0 6.6×6.6×7.0 6.6×6.6×9.5 7.0×7.85×7.0	10.0×10.0×5.0 10.0×10.0×13.0 10.0×10.0×23.2 11.1×11.9×11.0				
Operatin	g force (N)	0.98 1.57 2.55	0.98 1.57 2.55 3.53 5.10	1.57 2.55	0.98 1.57		57 55	0.74 1.27 2.55		
Trave	el (mm)	0.2	25	0.3	0.25		0.3			
Operating ten	nperature range	-20℃ to +70℃ -40℃ to +90℃	-40°C to	) +90°C	-20℃ to +70℃	-40°C to	o +90°C	-40℃ to +85℃		
	Rating (max.)				50mA 12V DC					
Flootrical	Rating (min.)				10μA 1V DC					
Electrical performance	Insulation resistance			100M	nin. 100V DC fo	r 1 min.				
	Voltage proof				250V AC for 1 mir	n.				
	Cold	-30℃ 96h -40℃ 96h	-40℃	96h	-30°C 96h	-40°C 96h				
Environmental performance	Dry heat	80℃ 96h 90℃ 96h	90°C	96h	80℃ 96h	90°C 96h				
	Damp heat		60°C, 90 to	95%RH 96h		60℃, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h		
Auto	motive	•	0	_	_	•	_	_		

### ⚠Note

• Indicates applicability to all products in the series, while  $\bigcirc$  indicates applicability to some products in the series.

# 6.0×3.5mm (Snap-in)

# **SKHL Series**

# Contributes to high-density mounting with top-push and side-push configurations.





■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Healthcare: Healthcare equipment, Analysis, test equipment

Home: Office equipment

Audio\_TV: Visual, Audio, Pro audio

Automotive: Navigation/audio systems, HVAC

#### ■ Product List

Products No.	Туре	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKHLAAA010		Top push	0.98	0.25	50,000	500mΩ max.	6.0×3.5×4.3	_	_	•	
SKHLACA010		Top push	1.57	0.25	50,000	500mΩ max.	6.0×3.5×4.3	_	_	•	1
SKHLAJA010	Top puch type	Top push	2.55	0.25	30,000	500mΩ max.	6.0×3.5×4.3	_	_	•	
SKHLABA010	Top push type	Top push	0.98	0.25	50,000	500mΩ max.	6.0×3.5×5.0	_	_	•	
SKHLADA010		Top push	1.57	0.25	50,000	500mΩ max.	6.0×3.5×5.0	_	_	•	2
SKHLAKA010		Top push	2.55	0.25	30,000	500mΩ max.	6.0×3.5×5.0	_	_	•	
SKHLLAA010		Side push	0.98	0.25	50,000	500mΩ max.	7.3×6.72×4.3	_	_	•	
SKHLLBA010		Side push	1.57	0.25	50,000	500mΩ max.	7.3×6.72×4.3	_	_	•	3
SKHLLFA010	Side push type	Side push	2.55	0.25	30,000	500mΩ max.	7.3×6.72×4.3	_	_	•	
SKHLLCA010		Side push	0.98	0.25	50,000	500mΩ max.	7.3×6.72×4.3	_	_	•	4
SKHLLDA010		Side push	1.57	0.25	50,000	500mΩ max.	7.3×6.72×4.3	_	_	•	4

# Note

- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please place purchase orders per minimum order unit (integer).

#### ■ Packing Specifications

Bulk

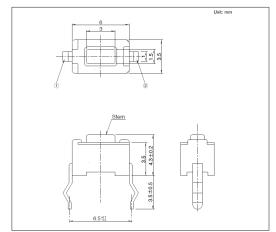
Number of pa	ckages(pcs.)	Export package measurements
1 case / Japan	1 case / export packing	(mm)
10,000	30,000	309×476×347

6.0×3.5mm (Snap-in)

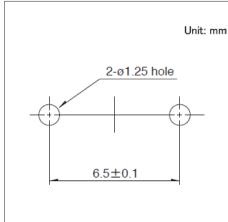
### **SKHL Series**

### Drawing No.1

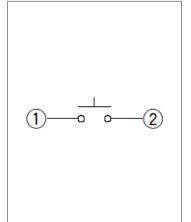
■ Dimensions



■ Mounting Hole Dimensions



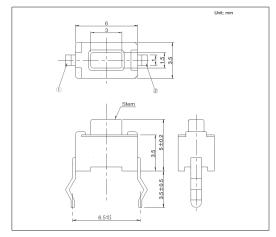
■ Circuit Diagram



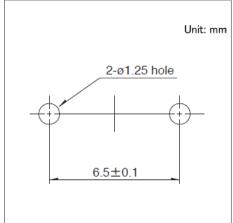
Viewed from mounting face.

### Drawing No.2

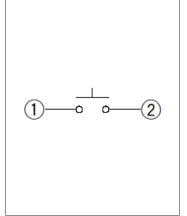
■ Dimensions



■ Mounting Hole Dimensions



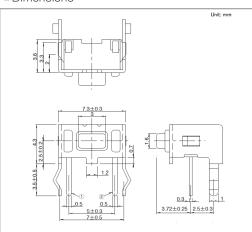
■ Circuit Diagram



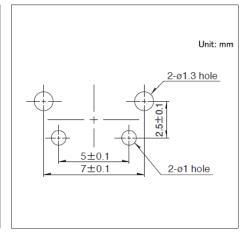
Viewed from mounting face.

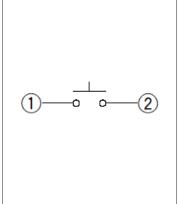
# Drawing No.3

■ Dimensions



■ Mounting Hole Dimensions



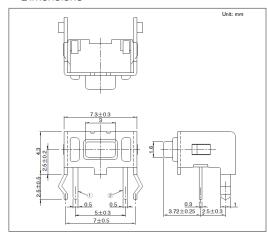


Viewed from mounting face.

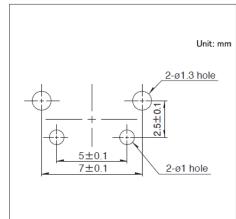
# 6.0×3.5mm (Snap-in) **SKHL Series**

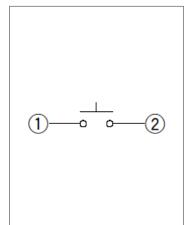
### Drawing No.4

Dimensions



■ Mounting Hole Dimensions





Viewed from mounting face.

# 6.0mm Square (Snap-in) **SKHH Series**

# Renowned for ease of use and wide product variety in a 6.0mm square type.





\*Please check the product list for compatible products

■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■Rating (min.):10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Healthcare: Healthcare equipment, Analysis, test equipment

Home: Office equipment

Audio\_TV:Visual,Audio,Pro audio

Automotive: Navigation/audio systems, HVAC

#### ■ Product List

Products No.	Туре	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKHHAJA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×4.3	_	_	•	
SKHHALA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×4.3	_	_	•	1
SKHHAQA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×4.3	_	_	•	
SKHHAKA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHAMA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHARA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×5.0	_	_	•	2
SKHHCQA010		Top push	3.53	0.25	200,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHCRA010		Top push	5.10	0.25	200,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHBVA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×7.0	_	_	•	
SKHHBWA010	Top push type	Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×7.0	_	_	•	3
SKHHBYA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×7.0	_	_	•	
SKHHANA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×9.5	_	_	•	
SKHHAPA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×9.5	_	_	•	4
SKHHBSA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×9.5	_	_	•	
SKHHDTA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×13.0	_	_	•	
SKHHDUA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×13.0	_	_	•	5
SKHHDHA010		Top push	0.98	0.25	500,000	100mΩ max.	6.0×6.0×17.0	_	_	•	0
SKHHDJA010		Top push	1.57	0.25	300,000	100mΩ max.	6.0×6.0×17.0	_	_	•	6
SKHHCWA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×7.3	_	_	•	
SKHHDAA010	Joint stem type	Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×7.3	_	_	•	7
SKHHDGA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×7.3	_	_	•	

# 6.0mm Square (Snap-in) **SKHH Series**

Products No.	Туре	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKHHPJA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×4.3	_	_	•	
SKHHPLA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×4.3	_	_	•	8
SKHHPQA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×4.3	_	_	•	
SKHHPKA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHPMA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×5.0	_	_	•	9
SKHHPRA010	With ground	Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×5.0	_	_	•	
SKHHQVA010	terminal type	Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×7.0	_	_	•	
SKHHQWA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×7.0	_	_	•	10
SKHHQYA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×7.0	_	_	•	
SKHHPNA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.0×6.0×9.5	_	_	•	
SKHHPPA010		Top push	1.57	0.25	500,000	100mΩ max.	6.0×6.0×9.5	_	_	•	11
SKHHQNA010		Top push	2.55	0.25	200,000	100mΩ max.	6.0×6.0×9.5	_	_	•	
SKHHLMA010		Side push	0.98	0.25	1,000,000	100mΩ max.	6.2×7.85×7.1	_	_	_	
SKHHLNA010		Side push	1.57	0.25	500,000	100mΩ max.	6.2×7.85×7.1	_	_	_	12
SKHHLPA010		Side push	2.55	0.25	200,000	100mΩ max.	6.2×7.85×7.1	_	_	_	
SKHHLQA010		Side push	0.98	0.25	1,000,000	100mΩ max.	6.2×12.35×7.1	_	_	_	
SKHHLRA010		Side push	1.57	0.25	500,000	100mΩ max.	6.2×12.35×7.1	_	_	_	13
SKHHLSA010		Side push	2.55	0.25	200,000	100mΩ max.	6.2×12.35×7.1	_	_	_	
SKHHLUA010	Side push type	Side push	0.98	0.25	1,000,000	100mΩ max.	6.2×9.85×7.1	_	_	_	
SKHHLVA010		Side push	1.57	0.25	500,000	100mΩ max.	6.2×9.85×7.1	_	_	_	14
SKHHLWA010		Side push	2.55	0.25	200,000	100mΩ max.	6.2×9.85×7.1	_	_	_	
SKHHNHA010		Side push	0.98	0.25	500,000	100mΩ max.	6.2×19.85×7.1	_	_	_	
SKHHNJA010		Side push	1.57	0.25	300,000	100mΩ max.	6.2×19.85×7.1	_	_	_	15
SKHHNKA010		Side push	2.55	0.25	200,000	100mΩ max.	6.2×19.85×7.1	_	_	_	

### ⚠Note

- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please use 1.6mm thick PC boards.
- 3. Please place purchase orders per minimum order unit (integer).

# 6.0mm Square (Snap-in) **SKHH Series**

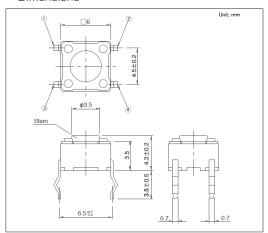
#### ■ Packing Specifications

Bulk

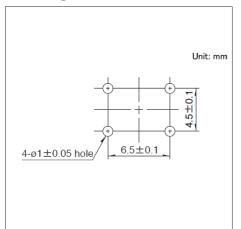
2	Number of p	ackages(pcs.)	Export package
Products No.	1 case / Japan	1 case / export packing	measurements (mm)
SKHHAJA010 SKHHALA010 SKHHALA010 SKHHAKA010 SKHHAKA010 SKHHARA010 SKHHARA010 SKHHCQA010 SKHHCQA010 SKHHBVA010 SKHHBVA010 SKHHBVA010 SKHHBVA010 SKHHBVA010 SKHHARA010 SKHHAPA010 SKHHDA010 SKHHDA010 SKHHDA010 SKHHDA010 SKHHPLA010 SKHHPLA010 SKHHPLA010 SKHHPA010 SKHHPA010 SKHHPA010 SKHHPRA010 SKHHPRA010 SKHHPRA010 SKHHQA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHQNA010 SKHHLQA010 SKHHLNA010	10,000	30,000	309 x 476 x 347
SKHHDTA010 SKHHDUA010 SKHHDHA010 SKHHDJA010 SKHHNHA010 SKHHNHA010 SKHHNJA010	5,000	15,000	309 x 476 x 347

### Drawing No.1

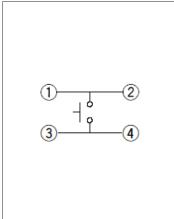
■ Dimensions



■ Mounting Hole Dimensions



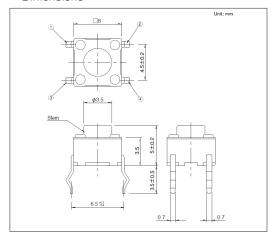
Viewed from mounting face.



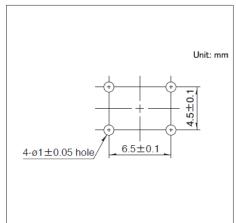
# **SKHH Series**

### Drawing No.2

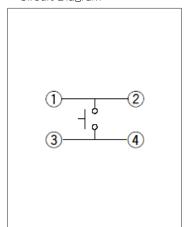
■ Dimensions



■ Mounting Hole Dimensions



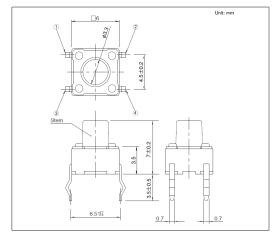
■ Circuit Diagram



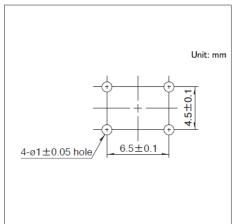
Viewed from mounting face.

### Drawing No.3

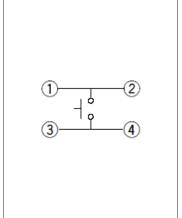
■ Dimensions



■ Mounting Hole Dimensions



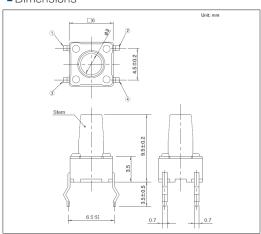
■ Circuit Diagram



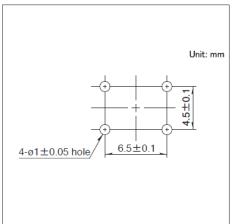
Viewed from mounting face.

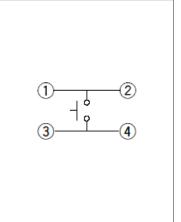
### Drawing No.4

■ Dimensions



■ Mounting Hole Dimensions



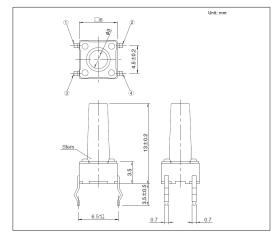


Viewed from mounting face.

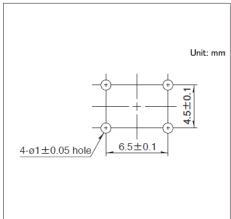
# **SKHH Series**

### Drawing No.5

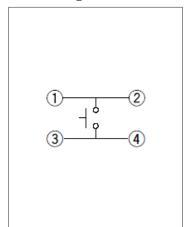
■ Dimensions



■ Mounting Hole Dimensions



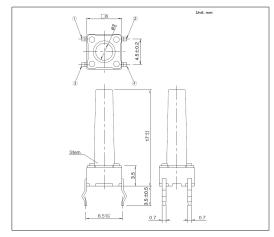
■ Circuit Diagram



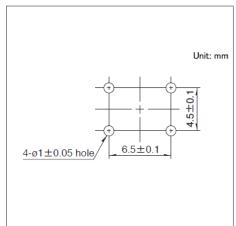
Viewed from mounting face.

### Drawing No.6

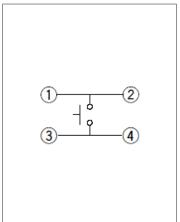
■ Dimensions



■ Mounting Hole Dimensions



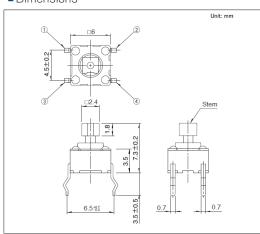
■ Circuit Diagram



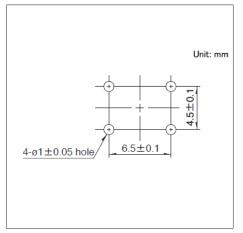
Viewed from mounting face.

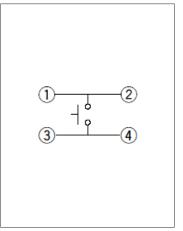
### Drawing No.7

■ Dimensions



■ Mounting Hole Dimensions



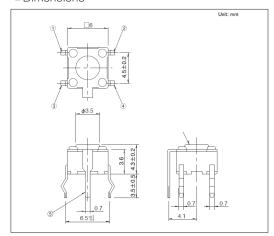


Viewed from mounting face.

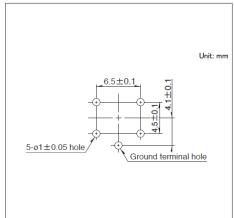
# **SKHH Series**

### **Drawing No.8**

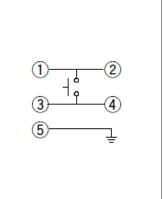
■ Dimensions



■ Mounting Hole Dimensions



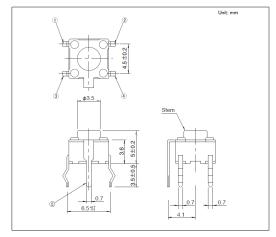
■ Circuit Diagram



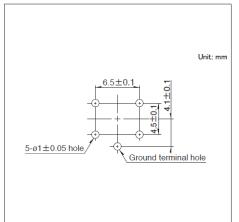
Viewed from mounting face.

### Drawing No.9

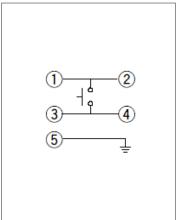
■ Dimensions



■ Mounting Hole Dimensions



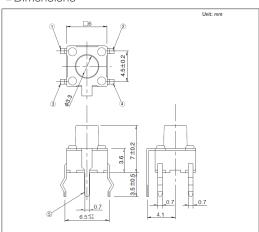
■ Circuit Diagram



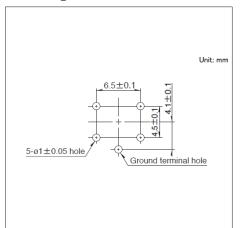
Viewed from mounting face.

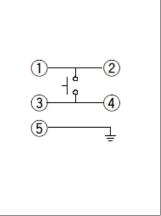
### Drawing No.10

■ Dimensions



■ Mounting Hole Dimensions



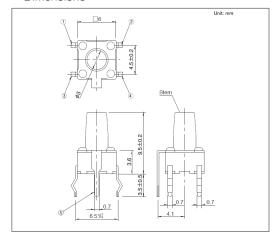


Viewed from mounting face.

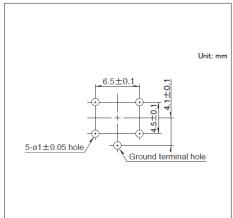
# **SKHH Series**

### Drawing No.11

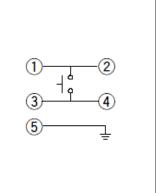
■ Dimensions



■ Mounting Hole Dimensions



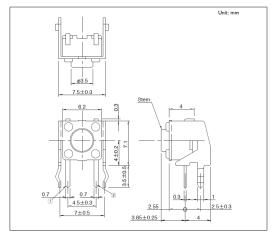
■ Circuit Diagram



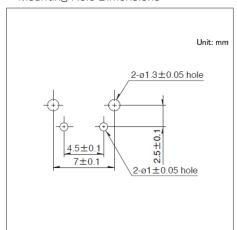
Viewed from mounting face.

### Drawing No.12

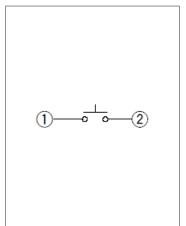
■ Dimensions



■ Mounting Hole Dimensions



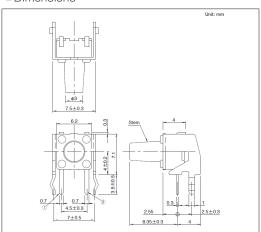
■ Circuit Diagram



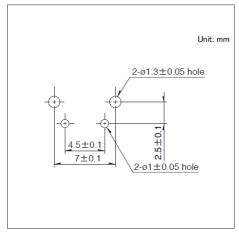
Viewed from mounting face.

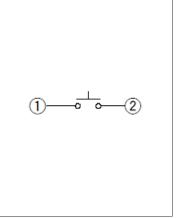
### Drawing No.13

■ Dimensions



■ Mounting Hole Dimensions



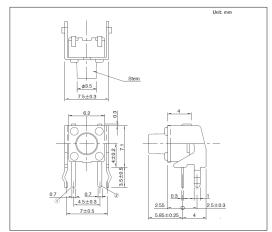


Viewed from mounting face.

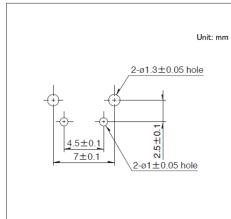
# **SKHH Series**

### Drawing No.14

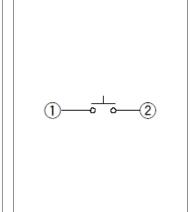
■ Dimensions



■ Mounting Hole Dimensions



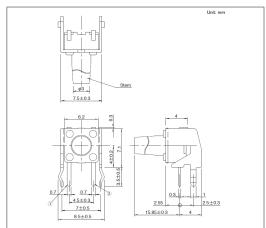
■ Circuit Diagram



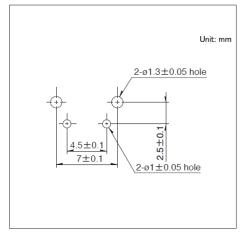
Viewed from mounting face.

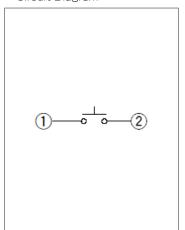
### Drawing No.15

■ Dimensions



■ Mounting Hole Dimensions





Viewed from mounting face.

# 6.0mm Square Dust-proof (Snap-in)

# **SKHW Series**

Supports a wide range of devices with unique dust-proof structure and sharp operation feel.





■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Healthcare: Healthcare equipment, Analysis, test equipment

Home: Major home appliances, Office equipment

Audio\_TV: Visual, Audio, Pro audio

#### ■ Product List

Products No.	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKHWALA010	Top push	1.57	0.3	1,000,000	100mΩ max.	6.0×6.0×4.3	_	•	_	1
SKHWARA010	Top push	2.55	0.3	500,000	100mΩ max.	6.0×6.0×4.3	_	•	_	'
SKHWAPA010	Top push	1.57	0.3	1,000,000	100mΩ max.	6.0×6.0×5.0	_	•	_	2
SKHWAQA010	Top push	2.55	0.3	500,000	100mΩ max.	6.0×6.0×5.0	_	•	_	2

#### ⚠Note

- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please use 1.6mm thick PC boards.
- 3. Please place purchase orders per minimum order unit (integer).

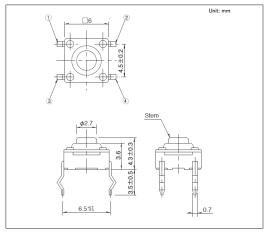
### ■ Packing Specifications

Bulk

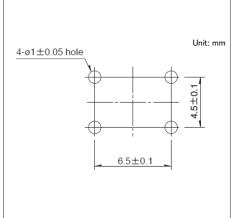
Number of pa	ckages(pcs.)	Export package measurements
1 case / Japan	1 case / export packing	(mm)
10,000	30,000	309 x 476 x 347

### Drawing No.1

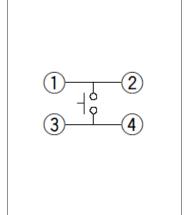
Dimensions



■ Mounting Hole Dimensions



■ Circuit Diagram

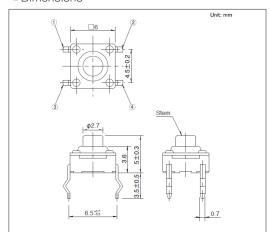


Viewed from mounting face.

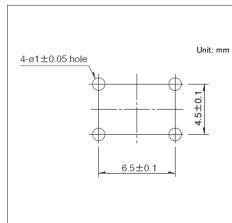
6.0mm Square Dust-proof (Snap-in) **SKHW Series** 

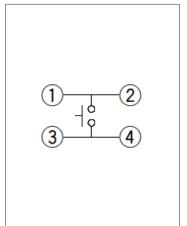
### Drawing No.2

Dimensions



■ Mounting Hole Dimensions





Viewed from mounting face.

# 6.6mm Square (Snap-in) **SKQJ Series**

# Simple dust-proof type with sharp operation feel and excellent versatility.





■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Healthcare: Healthcare equipment, Analysis, test equipment

Home: Major home appliances, Office equipment

Audio\_TV: Visual, Audio, Pro audio

#### ■ Product List

Products No.	Туре	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKQJAAA010		Top push	0.98	0.25	1,000,000	100mΩ max.	6.6×6.6×5.0	_	•	-	1
SKQJABA010		Top push	1.57	0.25	500,000	100mΩ max.	6.6×6.6×5.0	_	•	_	'
SKQJADA010	Top puch type	Top push	0.98	0.25	1,000,000	100mΩ max.	6.6×6.6×7.0	_	•	_	2
SKQJAEA010	Top push type	Top push	1.57	0.25	500,000	100mΩ max.	6.6×6.6×7.0	_	•	_	۷
SKQJAJA010		Top push	0.98	0.25	200,000	100mΩ max.	6.6×6.6×9.5	_	•	_	3
SKQJAKA010		Top push	1.57	0.25	200,000	100mΩ max.	6.6×6.6×9.5	_	•	_	3
SKQJLAA010	Cide pueb type	Side push	0.98	0.25	1,000,000	100mΩ max.	7.0×7.85×7.0	_	•	_	4
SKQJLBA010	Side push type	Side push	1.57	0.25	500,000	100mΩ max.	7.0×7.85×7.0	_	•	_	4



- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please use 1.6mm thick PC boards.
- 3. Please place purchase orders per minimum order unit (integer).

#### ■ Packing Specifications

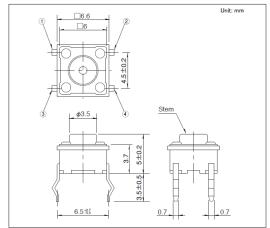
Bulk

Number of pa	Export package measurements	
1 case / Japan	1 case / export packing	(mm)
10,000	30,000	309 x 476 x 347

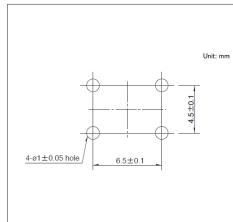
# **SKQJ Series**

### Drawing No.1

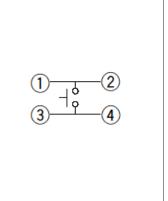
■ Dimensions



■ Mounting Hole Dimensions



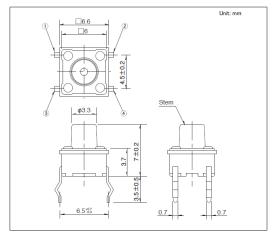
■ Circuit Diagram



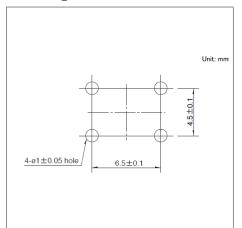
Viewed from mounting face.

### Drawing No.2

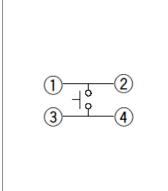
■ Dimensions



■ Mounting Hole Dimensions



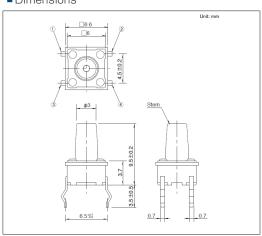
■ Circuit Diagram



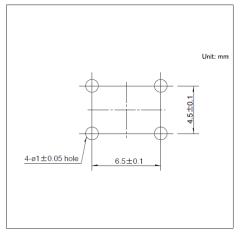
Viewed from mounting face.

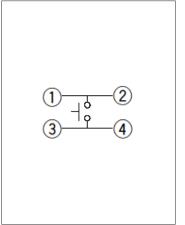
### Drawing No.3

■ Dimensions



■ Mounting Hole Dimensions



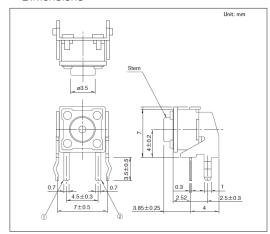


Viewed from mounting face.

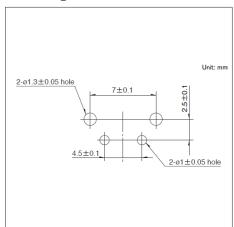
# 6.6mm Square (Snap-in) **SKQJ Series**

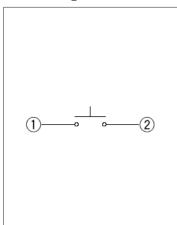
### Drawing No.4

■ Dimensions



■ Mounting Hole Dimensions





Viewed from mounting face.

# 10mm Square (Snap-in) SKQB Series

#### Excellent water-proof and dust-proof structure, suitable for water-related household appliances.









■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Healthcare: Healthcare equipment, Analysis, test equipment

Home: Major home appliances, Office equipment Automotive: Hood Latch (Side/Rear/Door/Gear), Navigation/audio systems, HVAC, Overhead consoles, Steering, Shifter

#### ■ Product List

Products No.	Туре	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Dimensions (W×D×H) (mm)	Water- proof	Dust- proof	Water-proof & Dust-proof	Automotive	Drawing No.
SKQBARA010		Top push	1.57	0.3	100,000	500mΩ max.	10.0×10.0×5.0	•	•	Conditions: Coating the terminals	•	1
SKQBASA010		Top push	2.55	0.3	100,000	500mΩ max.	10.0×10.0×5.0	•	•	Conditions: Coating the terminals	•	'
SKQBAPA010	Top push type	Top push	1.57	0.3	100,000	500mΩ max.	10.0×10.0×13.0	•	•	Conditions: Coating the terminals	•	2
SKQBAJA010	Top pash type	Top push	2.55	0.3	100,000	500mΩ max.	10.0×10.0×13.0	•	•	Conditions: Coating the terminals	•	۷
SKQBAQA010		Top push	1.57	0.3	100,000	500mΩ max.	10.0×10.0×23.2	•	•	Conditions: Coating the terminals	•	3
SKQBAMA010		Top push	2.55	0.3	100,000	500mΩ max.	10.0×10.0×23.2	•	•	Conditions: Coating the terminals	•	3
SKQBLBA010	Side push type	Side push	1.57	0.3	100,000	500mΩ max.	11.1×11.9×11.0	•	•	Conditions: Coating the terminals	•	4



- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Switch terminals must be coated thoroughly until the terminals are fully covered.
- 3. When the switch is used in an environment subject to high humidity or condensation, make sure the terminals are coated thoroughly to prevent current leakage between terminals.
- 4. Avoid using coating material coating toluene or xylene. For more information on coating material, please contact us.
- 5. Please use 1.6mm thick PC boards.
- 6. Please place purchase orders per minimum order unit (integer).

#### ■ Packing Specifications

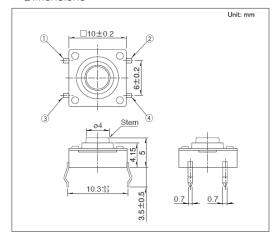
Bulk

Products No.	Number of pa	ackages(pcs.)	Export package measurements
Floudets No.	1 case / Japan	1 case / export packing	(mm)
SKQBARA010 SKQBASA010 SKQBAPA010 SKQBAJA010 SKQBLBA010	4,000	12,000	309 x 476 x 347
SKQBAQA010 SKQBAMA010	2,000	6,000	309 x 476 x 347

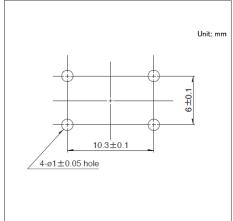
# **SKQB Series**

### Drawing No.1

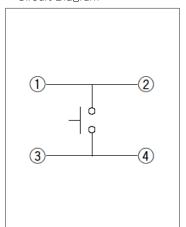
■ Dimensions



■ Mounting Hole Dimensions



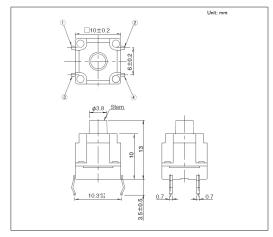
■ Circuit Diagram



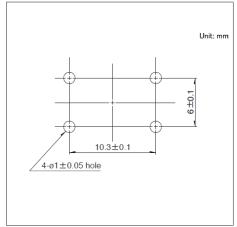
Viewed from mounting face.

### Drawing No.2

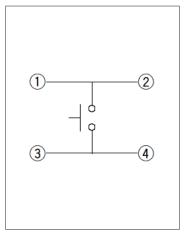
■ Dimensions



■ Mounting Hole Dimensions



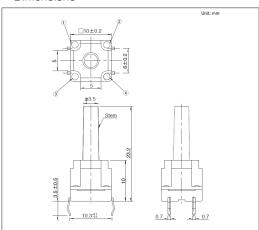
■ Circuit Diagram



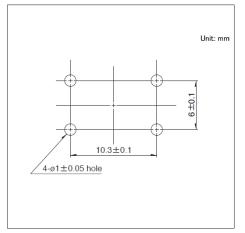
Viewed from mounting face.

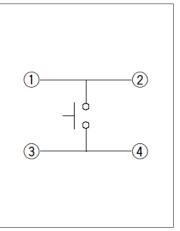
### Drawing No.3

■ Dimensions



■ Mounting Hole Dimensions



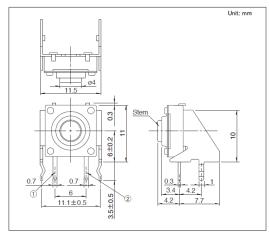


Viewed from mounting face.

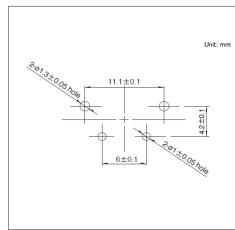
# 10mm Square (Snap-in) **SKQB Series**

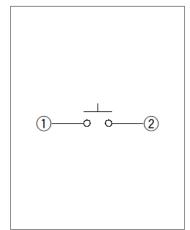
### Drawing No.4

Dimensions



■ Mounting Hole Dimensions



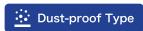


Viewed from mounting face.

# 12mm Square (Snap-in) **SKQE Series**

Long-life type with unique dust-proof structure and high-reliability metal contacts, capable of 10 million operations.





■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment Home: Major home appliances, Office equipment

#### ■ Product List

Products No.	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Stem	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKQEAAA010	Top push	1.57	0.3	10,000,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	•	_	,
SKQEACA010	Top push	2.55	0.3	10,000,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	•	-	'
SKQEABA010	Top push	1.57	0.3	10,000,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	•	_	2
SKQEADA010	Top push	2.55	0.3	10,000,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	•	_	

#### Note

- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please use 1.6mm thick PC boards.
- 3. Please place purchase orders per minimum order unit (integer).

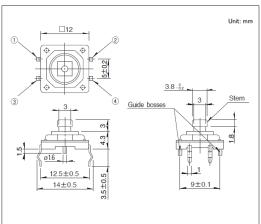
### ■ Packing Specifications

Bulk

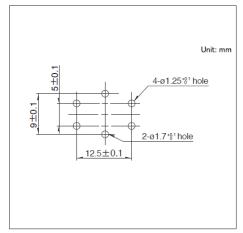
Number of pa	Export package measurements			
1 case / Japan	1 case / export packing	(mm)		
4,000	12,000	309 x 476 x 347		

#### **Drawing No.1**

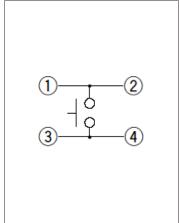
Dimensions



■ Mounting Hole Dimensions



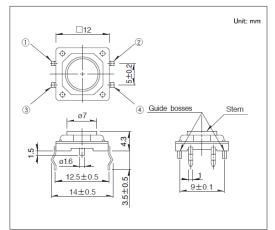
Viewed from mounting face.



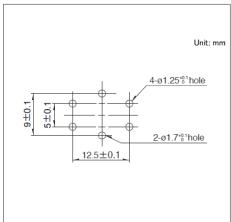
# 12mm Square (Snap-in) **SKQE Series**

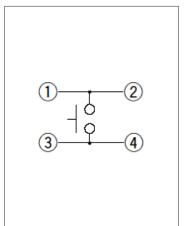
### Drawing No.2

Dimensions



■ Mounting Hole Dimensions





Viewed from mounting face.

# 12mm Square (Snap-in) **SKHC Series**

# Features stable operation feel with joint stem and flat stem designs.



■ Series type: Sharp feeling type ■ Rating (max.):50mA 12V DC ■ Rating (min.): 10µA 1V DC

Applications: Energy\_Industrial: Industrial equipment

Home: Office equipment

#### ■ Product List

Products No.	Operating direction	Operating force (N)	Travel (mm)	Operating life (cycles)	Initial contact resistance	Stem	Dimensions (W×D×H) (mm)	Water-proof	Dust-proof	Automotive	Drawing No.
SKHCBJA010	Top push	0.74	0.3	500,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	_	-	
SKHCBEA010	Top push	1.27	0.3	1,000,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	_	-	1
SKHCBLA010	Top push	1.27	0.3	3,000,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	_	_	ı
SKHCBGA010	Top push	2.55	0.3	500,000	100mΩ max.	Joint stem	12.0×12.0×7.3	_	_	_	
SKHCBKA010	Top push	0.74	0.3	500,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	_	_	
SKHCBFA010	Top push	1.27	0.3	1,000,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	_	_	2
SKHCBMA010	Top push	1.27	0.3	3,000,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	_	_	2
SKHCBHA010	Top push	2.55	0.3	500,000	100mΩ max.	Flat stem	12.0×12.0×4.3	_	_	_	

### ⚠Note

- 1. This catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. Please use 1.6mm thick PC boards.
- 3. Please place purchase orders per minimum order unit (integer).

#### ■ Packing Specifications

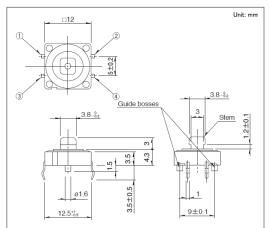
Bulk

Number of pa	ckages(pcs.)	Export package measurements
1 case / Japan	1 case / export packing	(mm)
5,000	15,000	309 x 476 x 347

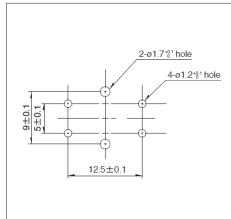
### **SKHC Series**

### Drawing No.1

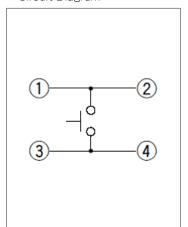
#### ■ Dimensions



#### ■ Mounting Hole Dimensions



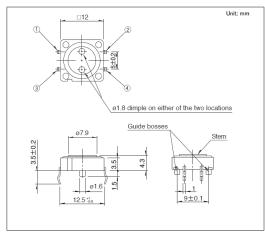
■ Circuit Diagram



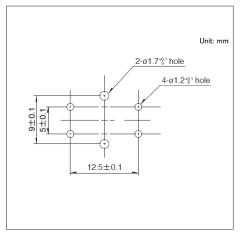
Viewed from mounting face.

### Drawing No.2

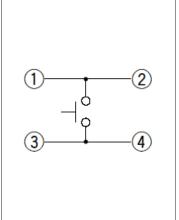
#### ■ Dimensions



#### ■ Mounting Hole Dimensions



■ Circuit Diagram



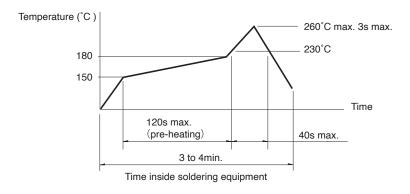
Viewed from mounting face.

# TACT Switch™ / Soldering Conditions

#### ■ Condition for Reflow

Available for Surface Mount Type.

Temperature profile



### Note

- 1. Please confirm the specifications of our product for the detailed condition.
- Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.
- 3. Allowable soldering time: 2 times Max. The second soldering should be done after the switch is stable with normal temperature.

#### ■ Conditions for Auto-dip

Available for Snap-in Type and Radial Type.

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

#### SKHH Series

Items	Condition			
Flux built-up	Mounting surface should not be exposed to flux			
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.			
Preheating time	60s max.			
Soldering temperature	260°C max.			
Duration of immersion	5s max.			
Number of soldering	2times max.			

#### SKHLTop Push Type, SKQJ Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	45s max.
Soldering temperature	255℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

#### ■ Manual Soldering

#### Items

Items	Condition
Soldering temperature	350℃max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

#### SKHH, SKHW Series

Items	Condition
Soldering temperature	360°Cmax.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

#### SKTD, SKQJ, SKSN Series

Items	Condition
Soldering temperature	350℃max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.



- 1. Prevent flux penetration from the top side of the TACT SwitchTM.
- 2. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 3. The second soldering should be done after the switch is stable with normal temperature.
- 4. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA CORPORATION, or equivalents.)

# TACT Switch™ / Cautions

- 1. When terminals are exposed to mechanical stress during soldering, it may cause degradation in deformation and electrical property.
- 2. Through-hole PC board, or a PC board thickness other than the recommendation may cause larger heat stress. Prior verification is highly recommended.
- 3. In prior to the 2nd soldering swith shall be stable with normal temperature. It may cause deformation of swith, loose terminals, terminal removed from PC board, and / or degradation of electric property.
- 4. Verify samples with actual mass production conditions.
- 5. After soldering, do not wash switches with a solvent, etc.
- 6. The products are designed and manufactured for direct current resistance. Individual consultation is recommended for use of other resistances such as inductive (L) or capacitive (C).
- 7. The sizes of holes and patterns on a PC board for mounting a switch, be asper the recommended dimensions in the product drawings.
- 8. This switch is designed for manually operated units. Must not use this switch for a mechanical detection unit. For detection purposes, please use our detection switch.
- 9. The switch will be broken if impact force or a greater stress than that specified is applied. Take great care not to let the switch be subject to greater stress than specified.
- 10. Do not apply a force from the side of the stem.
- 11. Be sure to push the center of switch for "without-stem" type. Extreme care is required for a hinge structure type, as the activation point may shift when it is pressed down.
- 12. The circuit setting (software setting) shall be ensured for error-free operations, caused by bounce and chattering as specified by each model of the switches.
- 13. Prior verification is needed to ensure that no corrosive gas-generating components are used near our switch. It may give negative influence such as contact failure.
- 14. Contact resistance of a carbon contact type may vary depending on push force. Confirm that it functions sufficiently in using TACT Switch™ with a voltage divider circuit.
- 15. Be aware of dust intrusion into a non dust-proof TACT switch ™.

#### 16. Storage

- 1. Store the products as delivered, at a normal temperature and humidity, without direct sunshine and corrosive gas ambient. Use them at an earliest possible timing, not later than six months upon receipt.
- 2. After breaking the seal, keep the products in a plastic bag to prevent out ambient air, store them in the same environment as above, and use all as soon as possible.
- 3.Do not stack too many switches.
- 4. Store the key switches in released position.
- 17. TACT Switch is a trademark or registered trademark of Alps Alpine Co., Ltd.