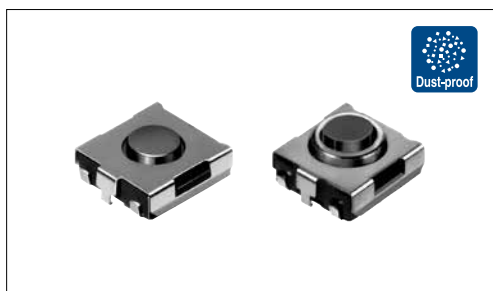


A wide variety of products including dust-proof type



## ■ Typical Specifications



| Items                      | Specifications |
|----------------------------|----------------|
| Rating (max.)              | 50mA 12V DC    |
| Rating (min.)              | 10μA 1V DC     |
| Initial contact resistance | 100mΩ max.     |
| Travel (mm)                | 0.25           |

## ■ Product Line

Top push type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height | Minimum order unit (pcs.) |        | Drawing No. |
|-------------------|-----------------|---------------------|----------------------------|------------|--------|---------------------------|--------|-------------|
|                   |                 |                     |                            |            |        | Japan                     | Export |             |
| <b>SKHUAKE010</b> | 0.98N           | Top push            | 300,000 cycles             | Green      | 2.5mm  | 3,000                     | 3,000  | 1           |
| <b>SKHUALE010</b> | 1.57N           |                     |                            | Black      |        |                           |        |             |
| <b>SKHUAME010</b> | 2.55N           |                     | 100,000 cycles             | Red        |        |                           |        |             |

With ground terminal type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height | Minimum order unit (pcs.) |        | Drawing No. |
|-------------------|-----------------|---------------------|----------------------------|------------|--------|---------------------------|--------|-------------|
|                   |                 |                     |                            |            |        | Japan                     | Export |             |
| <b>SKHUPKE010</b> | 0.98N           | Top push            | 300,000 cycles             | Green      | 2.5mm  | 3,000                     | 3,000  | 2           |
| <b>SKHUPLE010</b> | 1.57N           |                     |                            | Black      |        |                           |        |             |
| <b>SKHUPME010</b> | 2.55N           |                     | 100,000 cycles             | Red        |        |                           |        |             |

Dust-proof type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height | Minimum order unit (pcs.) |        | Drawing No. |
|-------------------|-----------------|---------------------|----------------------------|------------|--------|---------------------------|--------|-------------|
|                   |                 |                     |                            |            |        | Japan                     | Export |             |
| <b>SKHUBHE010</b> | 1.57N           | Top push            | 50,000 cycles              | Brown      | 3.1mm  | 3,000                     | 3,000  | 3           |

Dust-proof and with ground terminal type

| Product No.       | Operating force | Operating direction | Operating life (5mA 5V DC) | Stem color | Height | Minimum order unit (pcs.) |        | Drawing No. |
|-------------------|-----------------|---------------------|----------------------------|------------|--------|---------------------------|--------|-------------|
|                   |                 |                     |                            |            |        | Japan                     | Export |             |
| <b>SKHUQHE010</b> | 1.57N           | Top push            | 50,000 cycles              | Brown      | 3.1mm  | 3,000                     | 3,000  | 4           |
| <b>SKHUQGE010</b> | 2.55N           |                     |                            | Red        |        |                           |        |             |

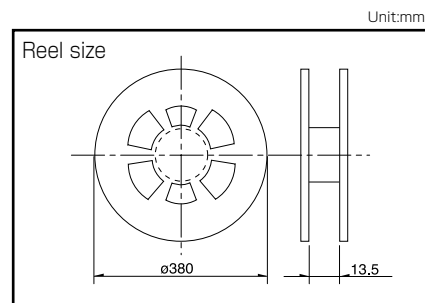
## ■ Packing Specifications

Taping

| Number of packages (pcs.) |                |                         | Tape width (mm) | Export package measurements (mm) |
|---------------------------|----------------|-------------------------|-----------------|----------------------------------|
| 1 reel                    | 1 case / Japan | 1 case / export packing |                 |                                  |
| 3,000                     | 30,000         | 30,000                  | 12              | 395×395×205                      |

## Note

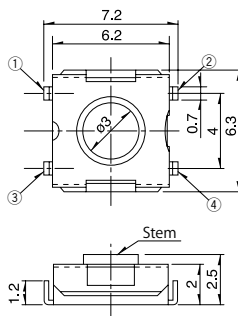
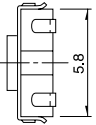
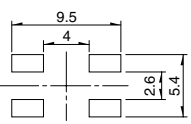
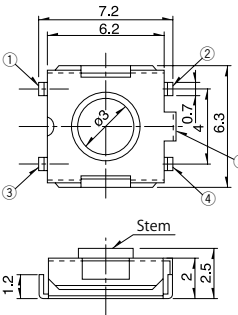
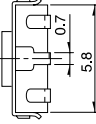
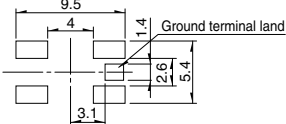
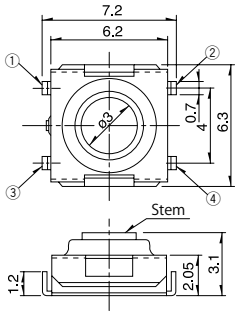
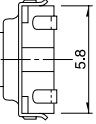
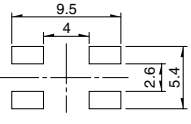
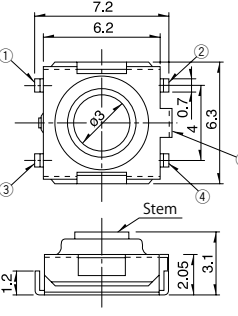
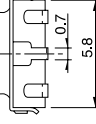
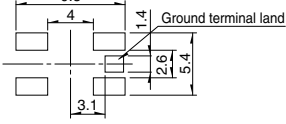
For reels of 330mm diameter, please inquire.



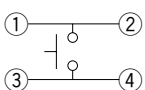
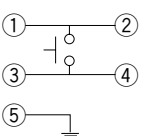
Refer to P.249 for soldering conditions.

## ■ Dimensions

Unit:mm

| No. | Photo                                                                               | Style                                                                                                                                                                    | PC board land dimensions<br>(Viewed from switch mounting face)                        |
|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1   |    |       |    |
| 2   |    |      |    |
| 3   |  |   |  |
| 4   |  |   |  |

## ■ Circuit Diagram

| Top push type                                                                       | With ground terminal type                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

# TACT Switch™

## List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

| Type                        |                                | Sharp Feeling Type                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                | Surface Mount                                                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| Series                      |                                | SKST                                                                                                                             | SKRA                                                                                | SKHM                                                                                | SKHU                                                                                | SKTD                                                                                 | SKSN                                                                                  | SKTG                                                                                  | SKSL                                                                                  |
| Photo                       |                                |                                                 |    |    |    |    |    |    |    |
| Features                    |                                | Middle travel                                                                                                                    |                                                                                     | —                                                                                   | —                                                                                   | Low-profile                                                                          | Mid-mount                                                                             | Half-mount                                                                            |                                                                                       |
| Water-proof                 |                                | —                                                                                                                                | ○                                                                                   | —                                                                                   | ○                                                                                   | ●                                                                                    | —                                                                                     | ●                                                                                     | —                                                                                     |
| Dust-proof                  |                                | —                                                                                                                                | ○                                                                                   | —                                                                                   | ○                                                                                   | ●                                                                                    | —                                                                                     | ●                                                                                     | —                                                                                     |
| IP standard                 |                                | —                                                                                                                                | 67 equivalent                                                                       | —                                                                                   | —                                                                                   | 67 equivalent                                                                        | —                                                                                     | 67 equivalent                                                                         | —                                                                                     |
| Operating direction         | Top push                       | ●                                                                                                                                | ●                                                                                   | ●                                                                                   | ●                                                                                   | —                                                                                    | —                                                                                     | —                                                                                     | —                                                                                     |
|                             | Side push                      | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                   | ●                                                                                    | ●                                                                                     | ●                                                                                     | ●                                                                                     |
| Dimensions (mm)             | W                              | □8.5                                                                                                                             | □6.2                                                                                | 6.2                                                                                 | 6.2                                                                                 | 3.9                                                                                  | 6.2                                                                                   | 5.2                                                                                   | 4.5                                                                                   |
|                             | D                              |                                                                                                                                  |                                                                                     | 6.5                                                                                 | 6.3                                                                                 | 2.9                                                                                  | 3                                                                                     | 3.5                                                                                   | 2.6                                                                                   |
|                             | H                              | 3.95                                                                                                                             | 3.5/5.2                                                                             | 3.1                                                                                 | 2.5/3.1                                                                             | 1.55                                                                                 | 3.5                                                                                   | 1.55                                                                                  | 2.2                                                                                   |
| Operation force coverage    | 1N max.                        | 4N to 10N                                                                                                                        |    |    |    |    |    |    |    |
|                             | 1N to 2N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | 2N to 3N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | 3N to 4N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| 4N to 5N                    |                                |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |   |                                                                                       |                                                                                       |                                                                                       |
| Travel (mm)                 |                                | 0.9                                                                                                                              | See the relevant pages for respective product description                           | 0.25                                                                                |                                                                                     | 0.15                                                                                 | 0.2                                                                                   | 0.15                                                                                  |                                                                                       |
| Ground terminal             |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                    | ●                                                                                     | ●                                                                                     | ●                                                                                     |
| Operating temperature range |                                | −40℃ to +90℃                                                                                                                     |                                                                                     | −40℃ to +85℃                                                                        |                                                                                     | −30℃ to +85℃                                                                         | −40℃ to +85℃                                                                          | −30℃ to +85℃                                                                          |                                                                                       |
| Automotive use              |                                | ●                                                                                                                                | ○                                                                                   | —                                                                                   | ○                                                                                   | —                                                                                    | —                                                                                     | —                                                                                     | —                                                                                     |
| Life Cycle                  |                                |                                               |  |  |  |  |  |  |  |
| Electrical performance      | Rating (max.) (Resistive load) | 50mA 16V DC                                                                                                                      | 50mA 12V DC                                                                         |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | Rating (min.) (Resistive load) | 10μA 1V DC                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | Insulation resistance          | 100MΩ min. 100V DC 1min.                                                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | Voltage proof                  | 250V AC 1min.                                                                                                                    |                                                                                     |                                                                                     |                                                                                     | 100V AC 1min.                                                                        | 250V AC 1min.                                                                         |                                                                                       | 100V AC 1min.                                                                         |
| Durability                  | Vibration                      | 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | Lifetime                       | Shall be in accordance with individual specifications.                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| Environmental performance   | Cold                           | −40℃ 1,000h                                                                                                                      |                                                                                     | −40℃ 96h                                                                            |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|                             | Dry heat                       | 90℃ 1,000h                                                                                                                       |                                                                                     | 90℃ 96h                                                                             |                                                                                     | 85℃ 96h                                                                              | 90℃ 96h                                                                               | 85℃ 96h                                                                               | 90℃ 96h                                                                               |
|                             | Damp heat                      | 60℃, 90 to 95%RH 1,000h                                                                                                          |                                                                                     | 60℃, 90 to 95%RH 96h                                                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| Page                        |                                | 230                                                                                                                              | 231                                                                                 | 232                                                                                 | 233                                                                                 | 235                                                                                  | 236                                                                                   | 237                                                                                   | 238                                                                                   |

W : Width. The most outer dimension excluding terminal portion.  
D : Depth. The most outer dimension excluding terminal portion.  
H : Height. The minimum dimension if there are variances.

|                                   |     |
|-----------------------------------|-----|
| TACT Switch™ Soldering Conditions | 249 |
| TACT Switch™ Cautions             | 250 |

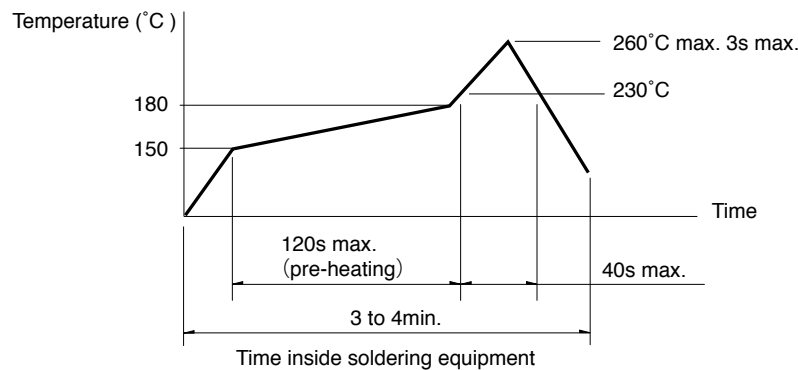
### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series, while ○ indicates applicability to some products in the series.

## ■ Condition for Reflow

Available for Surface Mount Type.

Temperature profile



### Notes

1. Please confirm the specifications of our product for the detailed condition.
2. Soldering conditions differ depending on reflow soldering machines.  
Prior verification of soldering condition is highly recommended.

## ■ 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°C max.                                                          |
| Duration of immersion  | 5s max.                                                             |
| Number of soldering    | 2times max.                                                         |

### Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
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.)

## ■ Manual Soldering

| Items                      | Condition  |
|----------------------------|------------|
| Soldering temperature      | 350°C max. |
| Duration of soldering      | 3s max.    |
| Capacity of soldering iron | 60W max.   |

### SKHH, SKHW Series

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

### SKTD, SKTG, SKQJ Series

| Items                      | Condition  |
|----------------------------|------------|
| Soldering temperature      | 350°C max. |
| Duration of soldering      | 3s max.    |
| Capacity of soldering iron | 20W max.   |

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### Офис по работе с юридическими лицами:

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