Partial dust protection type

TACT Switch[™]

| 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

| Product No. | Operating force | Operating direction | Operating life | | Stem height | Minimum order unit (pcs.) | |
|-------------|-----------------|---------------------|------------------|-----------|-------------|---------------------------|--------|
| 1100001110. | | | (5mA 5V DC) | | | Japan | Export |
| SKQKAAD010 | 0.98N | | 1,000,000 cycles | Black | h=5mm | | |
| SKQKABD010 | 1.57N | - Top push | 500,000 cycles | Dark gray | n=3mm | | |
| SKQKADD010 | 0.98N | | 1,000,000 cycles | Black | h=7mm | 1.000 | 1.000 |
| SKQKAED010 | 1.57N | | 500,000 cycles | Dark gray | | 1,000 | 1,000 |
| SKQKAJD010 | 0.98N | | 200.000 cvcles | Black | h=9.5mm | | |
| SKQKAKD010 | 1.57N | | 200,000 Cycles | Dark gray | n=9.5mm | | |

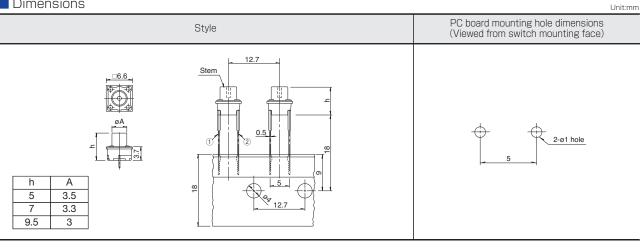
Packing Specifications

Radial Taping

| Number of packages (pcs.) | | | Export package measurements |
|---------------------------|--|--------|-----------------------------|
| 1 box | 1 case / Japan 1 case / export packing | | (mm) |
| 1,000 | 10,000 | 10,000 | 354×606×272 |

| | | Unit:mr |
|----------|--|---------|
| Box size | 00000000000000000000000000000000000000 | |
| | | |

Dimensions



ALPS

Circuit Diagram

Note Please use 1.6mm thick PC boards.

| | Туре | | | 5 | Sharp Feeling Typ | e | | |
|------------------------------|-----------------------------------|---|----------------|----------------|-----------------------------|---|--------------|----------------------------|
| | | Snap-in | | | | Radial | | |
| | Series | SKHL | SKHH | SKQJ | SKQB | SKRG | SKQK | SKRC |
| | Photo | the states, | | | | | | 866 202 |
| | Features | _ | _ | _ | — | Round terminal type | _ | Round terminal type |
| | Water-proof | _ | _ | _ | • | _ | _ | • |
| | Dust-proof | _ | _ | • | • | _ | _ | • |
| | IP standard | _ | _ | _ | — | _ | — | _ |
| Operatii | Top push | _ | — | _ | — | ٠ | • | • |
| directio | | • | • | • | • | _ | _ | _ |
| | W | 7.3 | 7.5 | 7.5 | 11.5 | 10.0 | | |
| Dimensio (mm) | ons D | 7.22 | 7.85 | 7.85 | 11.9 | ¢ 6.2 | □6.6 | \$ 9 |
| () | Н | 4.3 | 7.4 | 7.3 | 11.3 | See the relevant pages for respective product descriptions | 5 | 13 |
| Operatio force coverag | 2N to 3N | ļ | ļ | Ţ | \$ | ţ | Ĵ | ţ |
| Travel (mm) | | | 0.25 | | 0.3 | | 0.25 | 1 |
| G | round terminal | • | • | _ | _ | _ | | |
| Operating temperature range | | −40°C t | o +90°C | -20°C to +70°C | −40℃ to +95℃ | -40°C to +90°C | −20℃ to +70℃ | —30°C to +85°C |
| А | utomotive use | • | • | _ | • | • | _ | _ |
| Life Cycle | | 2 | *3 | | | 2 | 2 | |
| | Rating (max.) (Resistive load) | | | | 50mA 12V DC | | | |
| Electrical | Rating (min.) (Resistive load) | | | | 10µA 1V DC | | | |
| performance | Insulation resistance | | | 100N | IΩ min. 100V DC | 1min. | | |
| | Voltage proof | 250V 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 | | | | | | |
| Duiability | Lifetime | Shall be in accordance with individual specifications. | | | | | | |
| | Cold | -40% | C 96h | -30°C 96h | -400 | C 96h | -30℃ 96h | -40℃ 96h |
| Environmental performance | Dry heat | 90°C | 96h | 80°C 96h | 90°C | 96h | 80°C 96h | 90°C 96h |
| | Damp heat | 60°0 |), 90 to 95%RF | 196h | 60°C, 90 to 95%RH 1,000h | 60℃, 90 to | 95%RH 96h | 60°C, 90 to 95%RH 1,000 |
| | Page | 195 | 197 | 202 | 204 | 251 | 253 | 254 |

W . What, 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.

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Notes

1. The automotive operating temperature range to be individually discussed upon request.

2. Indicates applicability to all products in the series.



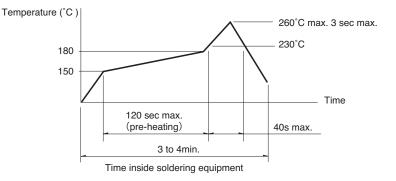
Surface Mount Type

Radial Type

Condition for Reflow

Available for Surface Mount Type.

- 1. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at solder joints (copper foil surface).
- A heat resistive tape should be used to fix thermocouple.
- 2. Temperature profile



Notes

- 1. The above temperature shall be measured of the top of switch. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others.
- The above-stated conditions shall also apply to switch surface temperatures.
- 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, SKPD 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. |

SKQJ, SKQK, SKEG 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 | Зs max. |
| Capacity of soldering iron | 60W max. |

SKHH, SKHW, SKRG, SKPD Series

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

SKTD, SKTG, SKQJ, SKQK, SKEG Series

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

