## Tact Switch Series (6x6mm)



## Part Number

| Model No. | High (L) | Model No. | High (L) |
| :---: | :---: | :---: | :---: |
| TS6601H | 4.3 | TS6601HE | 7.3 |
| TS6601HA | 5.0 | TS6601HF | 12.5 |
| TS6601HB | 7.0 | TS6601HG | 13.5 |
| TS6601HC | 8.0 | TS6601HK | 4.7 |
| TS6601HD | 9.5 |  |  |

Dimensions

P.C.B LAYDUT
$9-\infty$

## Tact Switch Series (6x6mm)

## TACTING SWITCH SPECIFICATION

## 1. GENERAL

1.1 Scope This specification covers the requirements for single key switches which have no keytop(TACT SWITCHES : MECHANICAL CONTACT).
1.2 Operating Temperature Range
-20 to $70^{\circ} \mathrm{C}$ (normal humidity, normal press.)
1.3 Storage Temperature Range
-30 to $80^{\circ} \mathrm{C}$ (normal humidity, normal press.)
1.4 Test Conditions

Tests and measurements shall be made in the following standard conditions unless otherwise specified:

Normal temperature (temperature 5 to $35^{\circ} \mathrm{C}$ )
Normal humidity (relative humidity 45 to $85 \%$ )
Normal pressure (pressure 860 to 1060 m bars)
In case any question arises from the judgement made, tests shall be conducted in the following conditions:

| Temperature | $\left(20 \pm 2^{\circ} \mathrm{C}\right)$ |
| :--- | :--- |
| Relative humidity | $(65 \pm 5 \%)$ |
| Pressure | $(860$ to 1060 m bars $)$ |

## 2. APPEARANCE, STYLE, AND DIMENSIONS

2.1 Appearance

There shall be no defects that affect the serviceability of the product.
2.2 Style and Dimensions

Shall conform to the assembly drawings.

## 3. TYPE OF ACTUATION



## 6. PERFORMANCE

6.1 Electrical

| Item | Test Conditions | Requirements |
| :---: | :---: | :---: |
| 6.1.1. <br> Contact <br> Resistance | Applying a static load twice the actuating force to the center of the stem, measurements shall be made with a 1 kHz small-current contact resistance meter. | 100 mohm max. |
| 6.1.2. <br> Insulation <br> Resistance | Measurements shall be made following application of DC 250 V potential across terminals and across terminals and frame for one minute. | $100 \mathrm{M} \mathrm{ohm} \mathrm{min}$. |
| 6.1.3. <br> Dielectric withstanding voltage | AC $500 \mathrm{~V}(50 \mathrm{~Hz}$ or 60 Hz$)$ shall be applied across terminals and across terminals and frame for one minute. | There shall be no breakdown. |
| 6.1.4. <br> Bounce | Lightly striking the center of the stem at a rate encountered in normal use ( 3 to 4 operations per sec.), bounce shall be tested at "ON" and "OFF". | $5 . \mathrm{msec} \max$. |
|  |  | TS6601H |
|  |  | 2/6 |





## 7. Switch Handling Precautions

7.1 In case an automatic flow soldering apparatus is used for soldering, adhere to the following conditions:

| Item | Soldering condition |
| :--- | :--- |
| 7.1.1. Preheat Temperature | $100^{\circ} \mathrm{C}$ max <br> (Ambient temperature of printed circuit board on <br> its soldering side) |
| 7.1.2. Preheat Time | 45 sec max. |
| 7.1.3. Flux Foaming | To such an extent that fluxes will be kept flush with <br> the printed circuit board's top surface on which <br> components are mounted. <br> Preparatory flux must not be applied to that side of <br> printed circuit board on which components are <br> mounted and to the area where terminals located. |
| 7.1.4. Soldering Temperature | $255^{\circ} \mathrm{C}$ max. |
| 7.1.5. Duration of Solder Immersion | 5 sec. max. <br> 7.1.6. Allowable Frequency of Soldering process |
| 7.2 Other precautions <br> 7.2.1. Following the soldering process, do not try to clean the switch with a solvent or the like. <br> 7.2.2. Safeguard the switch assembly against flux penetration from its topside. <br> 7.2.3. Please have the products keep in close status and the storage time is 90 days guaranty after <br> delivering the goods at most. |  |
| PART NO: |  |

