## Specification

Rating
Initial Contact Resistance Insluation Resistance
Operating Force
: 50mA, DC 32V MAX.
1MA, DC 20MV MIN.
: $100 \mathrm{~m} \Omega$ Max.
: 100V DC 10M $\Omega$
: 160/200/350gf
General tolerances
Solder Thickness
Operating Temperature Range
: $\pm 0.2 \mathrm{~mm}$
: 0.1 mm
: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Storage Temperature Range

Test conditions
Unless otherwise specified, the test and measurements shall be carried out as follows.
Ambient temperature
: $5^{\circ} \mathrm{C}$ to $35^{\circ} \mathrm{C}$
Relative humidity
: $45 \%$ to $85 \%$
Air pressure
: 86 to 106 kPa
However, if doubt arises on the decision based on the measured values under the above-mentioned conditions, the following conditions shall be employed.
Ambient temperature $: 20 \pm 2^{\circ} \mathrm{C}$
Relative humidity : $65 \pm 5 \%$
Rating
Min Max Voltage : 20mV DC 32V DC
Min Max Current $\quad: 1 \mathrm{~mA} 50 \mathrm{~mA}$
Type of Actuation : Tactile feedback

## Diagram



| Item | Description | Q'ty | Materials | Treatment |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Stem | 1 | Silicone Rubber | -- |
| 2 | Cover |  | Stainless Steel | None |
| 3 | Contact |  |  | With Silver Plating |
| 4 | Terminal |  | Brass |  |
| 5 | Base |  | High - Temp Thermoplastic LCP | Molded Black |



## Test Sequence

| Item | Description | Test Conditions | Requirements |
| :---: | :---: | :---: | :---: |
| Appearance |  |  |  |
| 1 | Visual Examination | By visual examination check without any out pressure \& testing. | There shall be no defects that affect the serviceability of the product. |
| Electric Performance |  |  |  |
| 2 | Contact <br> Resistance | Applying a static load 1.52 times the operating force to the center of the stem, measurements shall be made with a 1 kHz small current contact resistance meter | $100 \mathrm{~m} \Omega$ Max.(Initial) |
| 3 | Insulation <br> Resistance | 100V DC, 1 minute $\pm 5 \mathrm{sec}$. | 10M $\Omega$ Min. |
| 4 | withstand Voltage | 250 V AC ( 50 Hz or 60 Hz 2 mA ) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute. | No dielectric breakdown shall be occurred |
| Mechanical Perfprmance |  |  |  |
| 5 | Bounce | 3 to 4 operations at a rate of 1 cycles per second | 5 m seconds Max. |



| 14 | Heat Resistance | Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made : <br> 1) Temperature : $85^{\circ} \mathrm{C} \pm 2^{\circ} \mathrm{C}$ <br> 2)Time: 96 hours | Ditto |
| :---: | :---: | :---: | :---: |
| 15 | Humidity Resistance | Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: <br> 1)Temperature : $60^{\circ} \mathrm{C} \pm 2^{\circ} \mathrm{C}$ <br> 2)Relative Humidity :90~95\% <br> 3)Time: 96 hour | Ditto |
| 16 | Change of temperature | After 5 cycles of following conditions, the switch shall be allowed to stan d under normal room temperature and humidity conditions for 1 hr , and measurement shall be made within, 1 hr after that. Water drops shall be removed. $\begin{aligned} & A=+60^{\circ} \mathrm{C} \\ & \mathrm{~B}=-10{ }^{\circ} \mathrm{C} \\ & \mathrm{C}=2 \mathrm{H} \\ & \mathrm{D}=1 \mathrm{H} \\ & \mathrm{E}=2 \mathrm{H} \mathrm{H} \\ & \mathrm{~F}=1 \mathrm{H} \end{aligned}$ | Ditto |

## Soldering Conditions



- The condition mentioned above is the temperature on the Cu foil of the P.C.B surface. There are cases where board's temperature greatly differs from switch surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed $260^{\circ} \mathrm{C}$.
- Manual Soldering

Soldering Temperature
Continuous Soldering Time

Max. $350^{\circ} \mathrm{C}$
Max. 5 seconds

Part Number Table

| Description | Part Number |
| :---: | :---: |
| Tactile Switch, $6 \mathrm{~mm} \times 6 \mathrm{~mm}$, J Pin, H4.3mm, 200gf | MPT6WJ4RGQR |
| Tactile Switch, $6 \mathrm{~mm} \times 6 \mathrm{~mm}$, SMT, H4.3mm, 200gf | MPT6WM4RGQR |

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