

| ITEM | DESC． | Q＇TY | MATERIALS | TREATMENT | REMARK |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | COVER | 1 | HIGH－TEMP． <br> THERMOPLASTIC <br> PPS UL 94V－0 | Molded Black |  |
| 2. | ACTUATOR |  | HIGH－TEMP <br> THERMOPLASTIC <br> NYLON UL 94V－0 | Molded White | （2） |
| 3. | CONTACT |  | ALLOY－COPPER | Gold Plated At Contact <br> Area． | $\left({ }^{(2)}\right.$ |
| 4. | TERMINAL | BRASS | $\square=$ Gold Plated <br> P＝Gold Plated At <br> Contact Area，Tin At <br> Termination Area． | （2） |  |
| 5. | BASE | 1 | HIGH－TEMP． <br> THERMOPLASTIC <br> PPS UL 94V－0 | Molded Black | - |
| 6. | TAPE | - | KAPTON | - | - |

Remark：

## DL（R）TYPE


（2）The amounts of actuators，contacts，and terminals are based on position number．

|  |  |  |
| :---: | :--- | :---: |
|  |  |  |
|  |  |  |
| A | DWG．REL | 邱明義 |
| REV | ECO．NO | APPD |


| TITLE： <br> S．M．T TYPE DIP SWITCHES | APPD．： |  |
| :--- | :--- | :--- |
|  | CHKD．： |  |
| PRROD．NO．：$\square$（R）－$\square \square \square-\mathrm{V}-\square$ | PR．$:$ 楊佩需 |  |
| FILE NO．：E－V－CD06 | REV ：A | SHEET ： 1 of 1 |


1.Style:

This specification describes "DUAL IN-LINE PACKAGE SWITCHES" mainly used as signal switch of electric devices with the general requirements of mechanical and electrical characteristics.
1.1 Operating Temperature Range : $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$
1.2 Storage Temperature Range : $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$
1.3 The shelf life of product is within 6 months.
2. Current Range :
2.1 Non-Switching : 100mA, 50 V DC
2.2 Switching : 25mA, 24V DC
3. Type of Actuation: Actuated by sliding 4. Test Sequence :

|  | ITEM | DESCRIPTION | TEST CONDITIONS | REQUIREMENTS |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | Visual Examination | By visual examination check without any out pressure \& testing. | There shall be no defects that affect the serviceability of the product. |
|  | 2 | Contact Resistance | (1)To be measured between the two terminals associated with each switch pole. <br> (2Measurements shall be made with a 1 kHz shall current contact resistance meter. | $50 \mathrm{~m} \Omega \mathrm{max}$. (initial) |
|  | 3 | Insulation Resistance | 500 V DC, 1 minute $\pm 5 \mathrm{sec}$. | $100 \mathrm{M} \Omega \mathrm{min}$. |
|  | 4 | Dielectric withstanding Voltage | (1)500V AC ( 50 Hz or 60 Hz ) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute. <br> (2) Cut off current: 0.5 mA max. | There shall be no breakdown or flashover. |
|  | 5 | Capacitance | $1 \mathrm{MHz} \pm 10 \mathrm{kHz}$ | 5 pF max. |
|  | 6 | Operation Force | Applied in the direction of operation. $\mathrm{ON} \rightarrow \mathrm{OFF}$ $\mathrm{OFF} \rightarrow \mathrm{ON}$ | 1000gf max <br> (9.8N max) |





## 5. SOLDERING CONDITIONS:

$\square$ Condition for Soldering -DM(R), DL(R) -V Series


■ 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's 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 | Max. $350^{\circ} \mathrm{C}$ |
| :---: | :---: |
| Continuous Soldering Time | Max. 5 seconds |

■ Precautions in Handling

1. Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.
2. Don't clean the switch body except with top tape sealed type, which can only spray of cleaning method from top of s/w.
3. Please make sure that there is no flux rose over the surface of the PCB



- Notes on storage conditions:

Do not store in the following environment or it may affect product's function and solderbility:

1. temperature of $-10(\max ) \sim+40(\min ){ }^{\circ} \mathrm{C}$ \& humidity at $85 \%$ (min)
2. environment with corrosive gas
3. storage over 6 months
4. place of direct sunlight

Store with proper packaging conditions and to avoid loading heavy force
We suggest to use the products within 3 months or at least 6 months.
After opening the package, the rest products must be stored in the appropriate moisture-proof \& airtight environment

