

1．4 Test Conditions：The standard test conditions shall be $5^{\circ} \mathrm{C} \sim 35^{\circ} \mathrm{C}$ in temperature，
$45 \sim 85 \%$ RH and 860～1060mbar in atmospheric pressure．Should any doubt arise in judgment，tests shall be conducted at $20 \pm 2^{\circ} \mathrm{C}$ ，
$65 \pm 5 \% \mathrm{RH}$ and $860 \sim 1060 \mathrm{mbar}$ ．

2．RATED VOLTAGE AND CURRENT
DC 12V 50mA

3．ELECTRIC PERFORMANCE

|  | PROPERTY | TEST CONDITIONS | PERFORMANCE |
| :---: | :---: | :---: | :---: |
| 3.1 | Contact arrangement |  | ＊1 pole， 1 throw |
| 3.2 | Contact resistance | Measured at DC 5V 10 mA or by ohmmeter allowing a small current at 1 KHz with $150 \%$ of Actuating force． | ＊less than $500 \mathrm{~m} \Omega$ |
| 3.3 | Insulation resistance | DC 100 V is applied between terminals and berween terminals and cover for 1 minute $\pm 5$ seconds． | ＊greater than $100 \mathrm{M} \Omega$ |
| 3.4 | Dielectric strength | AC $250 \mathrm{~V}(50 \sim 60 \mathrm{~Hz})$ is applied between terminals and between terminals and cover for 1 minute． | ＊No insulation defect shall be observed． |
| 3.5 | Bounce | Measured by lightly striking the center of the stem at a rate of 3 operations $/ \mathrm{sec}$ ．． | ＊less than 5m sec． |


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| 4.3 | Stop strength | A static force of 3Kgf shall be applied to the direction <br> of operation for 3 seconds. | *Shall be free from <br> mechanical and <br> electrical abnormalities. |
| :--- | :--- | :--- | :--- |
| 4.4 | Stem withdrawal <br> force | A static load of 500 gf is applied to the direction of <br> pulling for 3 seconds. | *Shall be free from <br> mechanical and <br> electrical degradation. |
| 4.5 | Solderability | Dip in the solder bath of temperature $230 \pm 2^{\circ} \mathrm{C}$ for <br> $2 \pm 0.5(\mathrm{sec}$ ) after dipping in the flux of room <br> temperature for 5 sec to 10 sec. <br> The solder shall be covered on $90 \%$ min of dipping <br> area on the plating surface. |  |
| 4.6 | Travel |  | $\star$ As per individual |
| menufactured drawing. |  |  |  |

5. DURABILITY

|  | PROPERTY | TEST CONDITIONS | PERFORMANCE |
| :---: | :---: | :---: | :---: |
| 5.1 | Operating life | *100,000 cycle operation with a load of $150 \%$ of Actuating force at a rate of $15 \sim 20$ cycles $/ \mathrm{min}$. with a resistive load supplying DC 12 V 50 mA | *Contact resistance : $500 \mathrm{~m} \Omega$ max. <br> *Bounce : 20m sec max. <br> *Actuating force : Within $\pm 30 \%$ of the initial value. |
| 5.2 | Shock resistance | An impact load of 30 g is applied according to the method 205. MIL-STD 202. | *The requirement in item 3 and 4 shall be met. |


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| 6.2 | Dry Heat Proof | After testing at $85^{\circ} \mathrm{C}$ for 96 hrs ． <br> The sample is allowed to stand under normal temperature and for 1 hour and measurement is performed within 1 hour after that． | ＊The requirement in item 3 and 4 shall be satisfied． |
| :---: | :---: | :---: | :---: |
| 6.3 | Damp Heat Proof | After testing at $60 \pm 2^{\circ} \mathrm{C}$ and $90 \sim 95 \%$ in relative humidity for 96 hrs，the sample is allowed to stand under normal temperature and humidity conditions for 1 hour and measurement is performed within 1 hour after that． <br> Water drops should be wiped off． | ＊Insulation resistance ： $10 \mathrm{M} \Omega \mathrm{min}$. <br> ＊Dielectrid strength ： same as item 3.4 <br> ＊Contact resistance ： same as item 3.2 |
| 6.4 | Thermal cycling | After the test contacted under 5cycles，the sample is allowed to stand under normal temperature and humidity conditions for 1 hour，and the measurement is performed within 1 hour． | ＊The requirement in item 3 and 4 shall be met． |


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＜Temperature profile＞
$\triangle$
7．2 Manual soldering conditions
1）Soldering temperature ：less than $350^{\circ} \mathrm{C}$ ．
2）Soldering time ：Within 3 seconds

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|  |  |  |  |  |  | $2$ |  | 申高华 |  |  |
| $\begin{aligned} & \text { Soldering } \\ & \text { 사양주가 } \\ & \hline \end{aligned}$ | $\triangle$ | 07．05．09 |  |  |  |  |  |  | DOCUMENT | JT0141－LF |
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(The above item is certified to use with following materials.)

| No. | 구성부품명 <br> (Part name) | 원 재료(Material) |  |  |  | 난연성 (Flame cless) | $\begin{gathered} \text { UL } \\ (\text { File No.) } \end{gathered}$ | $\begin{gathered} \text { 색상 } \\ \text { (Color) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Material name | Treatment | Manufacturer | Nationality |  |  |  |
| 1 | CASE | PPA |  | SOLVAY | USA | UL 94V0 | E95746 | BLACK |
| 2 | BRACKET | TIN PLATE | Sn Plating | DONG BU | KOREA |  |  |  |
| 3 | STEM | PPA |  | SOLVAY | USA | UL 94HB | E95746 | NATURAL (IVORY) |
| 4 | TERMINAL | BRASS | Ag Plating | POONG SAN | KOREA |  |  |  |
| 5 | CONTACT | STAINLESS STEEL | Ag Clad | TOYO SEIHAKU | JAPAN |  |  |  |
| 6 |  |  |  |  |  |  |  |  |
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