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|---------|-----------------------------------|--------|---------------------|
| Product | Conductive polymer type capacitor | Series | TCTO series AS case |
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| Factory | ROHM APOLLO CO.,LTD. |
| | ROHM INTEGRATED SYSTEMS(THAILAND)CO.,LTD. |

1. Test result

| No. | Item | Test condition | Standard | n[pcs] Sample QTY. | Pn[pcs] NG QTY. | | | | | | | | | | | | | | | |
|-----|------------------------------|---|--|--------------------------|-----------------------|---|---------|---------|---|------------|--------------|---|---------|---------|---|------------|--------------|--|----|---|
| 1 | Resistance to soldering heat | Dip in the solder bath. Solder temp. : 240±5°C Duration : 10±0.5s Repetition : 1time After the spesimens,leave it at room temperature for over 24h and then measure the sample. | As per 4.14 JIS C 5101-1 As per 4.6 JIS C 5101-3 | 22 | 0 | | | | | | | | | | | | | | | |
| 2 | Temperature cycle | Repetition : 5cycles (1cycle : steps1~4) Without discontinuation. <table border="1"> <thead> <tr> <th></th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55±3°C</td> <td>30±3min</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>3min or less</td> </tr> <tr> <td>3</td> <td>105±2°C</td> <td>30±3min</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>3min or less</td> </tr> </tbody> </table> After the spesimens,leave it at room temperature for over 24h and then measure the sample. | | Temperature | Time | 1 | -55±3°C | 30±3min | 2 | Room temp. | 3min or less | 3 | 105±2°C | 30±3min | 4 | Room temp. | 3min or less | As per 4.16 JIS C 5101-1 As per 4.10 JIS C 5101-3 | 22 | 0 |
| | Temperature | Time | | | | | | | | | | | | | | | | | | |
| 1 | -55±3°C | 30±3min | | | | | | | | | | | | | | | | | | |
| 2 | Room temp. | 3min or less | | | | | | | | | | | | | | | | | | |
| 3 | 105±2°C | 30±3min | | | | | | | | | | | | | | | | | | |
| 4 | Room temp. | 3min or less | | | | | | | | | | | | | | | | | | |
| 3 | Moisture resistance | After leaving the sample under such atmospheric condition that the temperature and humidity are 40±2°C and 90~95%(Relative Humidity) , respectively ,for 500±14h leave it at room temperature for over 24h and then measure the sample. | As per 4.22 JIS C 5101-1 As per 4.12 JIS C 5101-3 | 22 | 0 | | | | | | | | | | | | | | | |
| 4 | Loading at high temperature | After applying the rated voltage for 1000+72/0h without discontinuation via the serial resistance of 3Ωor less at a temperature of 85±2°C , leave the sample at room temperature/ humidity for over 24h and measure the value. | As per 4.23 JIS C 5101-1 As per 4.15 JIS C 5101-3 | 22 | 0 | | | | | | | | | | | | | | | |

2.Failure criteria

| No. | Test item | Performance | |
|-----|------------------------------|--------------|---|
| 1 | Resistance to soldering heat | Appearance | There should be no significant abnormality.The indications should be clear. |
| | | L.C. | Less than 300% of initial limit. |
| | | $\Delta C/C$ | Within $\pm 20\%$ of initial value |
| | | $\tan\delta$ | Less than 300% of initial limit. |
| 2 | Temperature cycle | Appearance | There should be no significant abnormality.The indications should be clear. |
| | | L.C. | Less than 1000% of initial limit. |
| | | $\Delta C/C$ | Within $\pm 20\%$ of initial value |
| | | $\tan\delta$ | Less than 300% of initial limit. |
| 3 | Moisture resistance | Appearance | There should be no significant abnormality.The indications should be clear. |
| | | L.C. | Less than 300% of initial limit. |
| | | $\Delta C/C$ | Within +30/-20% of initial value |
| | | $\tan\delta$ | Less than 300% of initial limit. |
| 4 | Loading at high temperature | Appearance | There should be no significant abnormality.The indications should be clear. |
| | | L.C. | Less than 400% of initial limit. |
| | | $\Delta C/C$ | Within $\pm 20\%$ of initial value |
| | | $\tan\delta$ | Less than 300% of initial limit. |

3.Judgment

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| OK |
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