



TEST REPORT

No. : SUZRL2021080070-1_EN

Date: 2021-12-10

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CUSTOMER NAME: JINZHOU KAIMEI POWER CO., LTD

ADDRESS: NO.139.7 SECTION CHONGQING ROAD,LINGHE DISTRICT, JINZHOU CITY,
LIAONING PROVINCE, CHINA./ NO.141 JINYI STREET ,LINGHE
DISTRICT,JINZHOU CITY, LIAONING PROVINCE, CHINA

The following sample's information(s) was/ were submitted and identified on behalf of the client as:

Sample Name : Winding series super capacitor
Test Standards : Refer to AEC Q200REV D-2010 table3 and client's requirement
SGS Ref. No. : TP21-005332
Date of Receipt : 2021-08-27
Testing Start Date : 2021-08-27
Testing End Date : 2021-11-04
Test result(s) : For further details, please refer to the following page(s)

Signed for SGS-CSTC Standards Technical
Services Co., Ltd. Suzhou Branch

Niko Ren Authorized signatory



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Report Declaration:

The test samples were provided and confirmed by the customer in this report, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products manufactured are in conformity with the product sample in this report.

In the territory of the People's Republic of China, the test method is not in CMA accredited scope, the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc...and just for client internal reference.

Manufacture Declaration or Comment:

None

Summary of Result(s):

Accord with AEC Q200REV D-2010 table3 and client's requirement, See next page for details

| No. | Test Item | Test Method | Quantities | Result | Conclusion |
|-----|-------------------------------------|--|------------|------------|------------|
| 1. | External Visual | MIL-STD-883 Method 2009 and client's requirement | 463 | See result | Pass |
| 2. | High Temperature Exposure (Storage) | MIL-STD-202 Method 108 and client's requirement | 77 | See result | Pass |
| 3. | Temperature Cycling | JESD22 Method JA-104 and client's requirement | 77 | See result | Pass |
| 4. | Biased Humidity | MIL-STD-202 Method 103 and client's requirement | 77 | See result | Pass |
| 5. | Operational Life | MIL-STD-202 Method 108 and client's requirement | 77 | See result | Pass |
| 6. | Physical Dimension | JESD22 Method JB-100 and client's requirement | 30 | See result | Pass |
| 7. | Terminal Strength (Leaded) | MIL-STD-202 Method 211 and client's requirement | 30 | See result | Pass |
| 8. | Resistance to Solvents | MIL-STD-202 Method 215 and client's requirement | 5 | See result | Pass |
| 9. | Vibration | MIL-STD-202 Method 204 and client's requirement | 30 | See result | Pass |
| 10. | Resistance to Soldering Heat | MIL-STD-202 Method 210 and client's requirement | 30 | See result | Pass |
| 11. | ESD | AEC-Q200-002 or ISO/DIS 10605 and client's requirement | 15 | See result | Pass |
| 12. | Solderability | J-STD-002 and client's requirement | 15 | See result | Pass |

Note:

Pass: Meet the requirements

Fail: Does not meet the requirements

N/A: Not apply to the judgment





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This Report cancels and supersedes the Report No.: SUZRL2021080070_EN, dated: 2021-11-17 issued by SGS Suzhou Branch.

Note: Report modification

| Modification | Before | After |
|--------------------|--------|--------------------------------|
| Sample information | / | Add test methods and standards |



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1. Test Item: External Visual

Sample Description: Capacitance

Quantities of Specimens: 463 PCS for test

Test Standards: MIL-STD-883 Method 2009 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Evaluation Method:

Inspect device construction, marking and workmanship.

Visual inspection: no damage and no liquid leakage.

Test Result(s):

Accord with AEC Q200REV D-2010 table3 and client's requirement, See next page for details

| Sample No. | Visual Inspection | Conclusion |
|------------|---|------------|
| S21080070 | The appearance is free of damage and liquid leakage | Pass |

Test Photo(s):

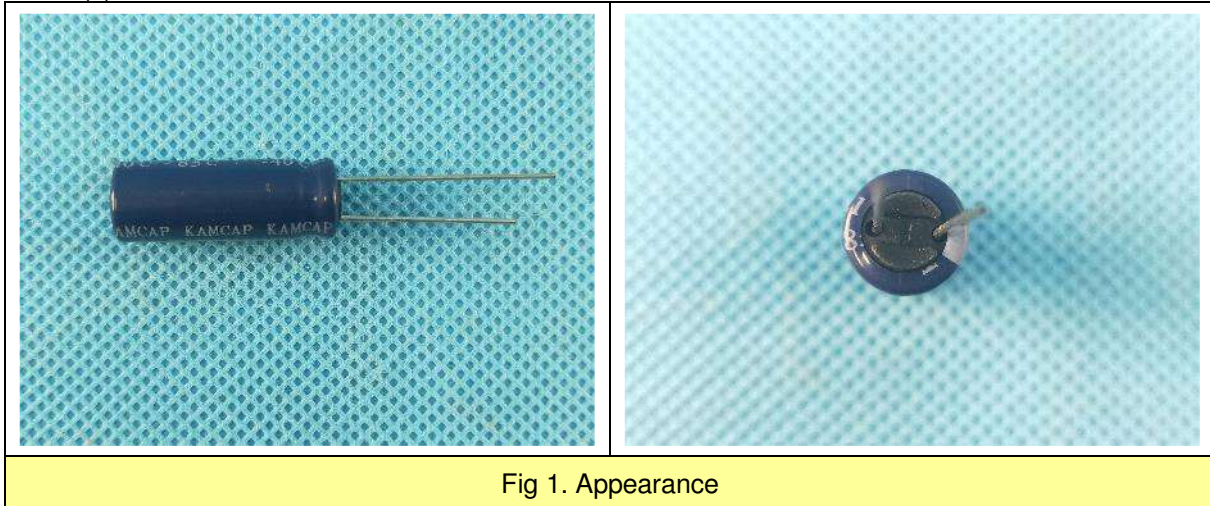


Fig 1. Appearance



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Fig 2. Original sample



Fig 3. Original sample



Fig 4. Original sample



Fig 5. Original sample



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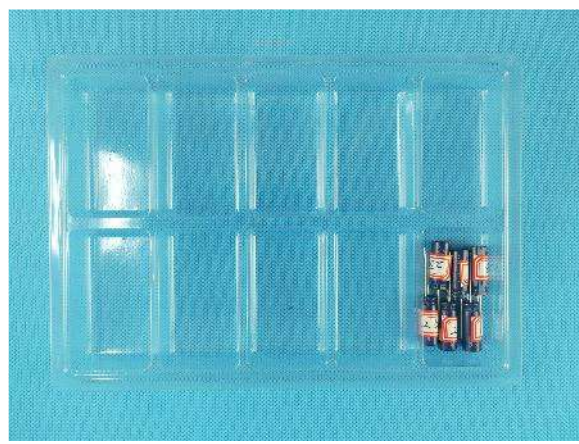


Fig 6. Original sample



Fig 7. Original sample



Fig 8. Original sample



Fig 9. Original sample



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Fig 10. Original sample



Fig 11. Original sample



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2. Test Item: High Temperature Exposure (Storage)

Sample Description: Capacitance

Quantities of Specimens: 77 PCS

Test Standards: MIL-STD-202 Method 108 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Test Temperature: 85°C

Test duration: 96 hours

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR $\leq 2^*$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 1 | normal | 11.018 | 10.765 | -2.30% | 23.3 | 28.8 | 1.24 | Pass |
| 2 | normal | 11.377 | 11.065 | -2.74% | 22.7 | 27.9 | 1.23 | Pass |
| 3 | normal | 11.335 | 11.024 | -2.74% | 21.8 | 25.6 | 1.17 | Pass |
| 4 | normal | 10.899 | 10.568 | -3.04% | 23.6 | 27.4 | 1.16 | Pass |
| 5 | normal | 10.980 | 10.677 | -2.76% | 23.8 | 28.3 | 1.19 | Pass |
| 6 | normal | 11.099 | 10.685 | -3.73% | 23.4 | 29.7 | 1.27 | Pass |
| 7 | normal | 11.059 | 10.834 | -2.03% | 23.9 | 29.6 | 1.24 | Pass |
| 8 | normal | 10.862 | 10.645 | -2.00% | 22.7 | 28.6 | 1.26 | Pass |
| 9 | normal | 11.027 | 10.643 | -3.48% | 22.0 | 25.9 | 1.18 | Pass |
| 10 | normal | 10.747 | 10.575 | -1.60% | 23.2 | 26.6 | 1.15 | Pass |
| 11 | normal | 10.671 | 10.427 | -2.29% | 23.4 | 27.9 | 1.19 | Pass |
| 12 | normal | 10.937 | 10.734 | -1.86% | 22.8 | 27.4 | 1.20 | Pass |
| 13 | normal | 11.015 | 10.646 | -3.35% | 23.2 | 28.7 | 1.24 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 14 | normal | 11.172 | 10.864 | -2.76% | 22.7 | 28.6 | 1.26 | Pass |
| 15 | normal | 11.178 | 10.772 | -3.63% | 22.4 | 26.4 | 1.18 | Pass |
| 16 | normal | 11.016 | 10.824 | -1.74% | 22.9 | 27.7 | 1.21 | Pass |
| 17 | normal | 10.700 | 10.382 | -2.97% | 22.5 | 26.5 | 1.18 | Pass |
| 18 | normal | 10.864 | 10.528 | -3.09% | 23.4 | 27.8 | 1.19 | Pass |
| 19 | normal | 11.059 | 10.867 | -1.74% | 23.0 | 28.1 | 1.22 | Pass |
| 20 | normal | 11.375 | 10.992 | -3.37% | 23.1 | 27.4 | 1.19 | Pass |
| 21 | normal | 10.817 | 10.547 | -2.50% | 23.3 | 26.2 | 1.12 | Pass |
| 22 | normal | 11.214 | 10.927 | -2.56% | 21.8 | 28.9 | 1.33 | Pass |
| 23 | normal | 11.141 | 10.734 | -3.65% | 23.0 | 27.7 | 1.20 | Pass |
| 24 | normal | 10.549 | 10.246 | -2.87% | 22.4 | 27.7 | 1.24 | Pass |
| 25 | normal | 10.905 | 10.568 | -3.09% | 23.3 | 27.2 | 1.17 | Pass |
| 26 | normal | 10.823 | 10.577 | -2.27% | 22.7 | 27.2 | 1.20 | Pass |
| 27 | normal | 11.141 | 10.946 | -1.75% | 23.6 | 27.6 | 1.17 | Pass |
| 28 | normal | 10.863 | 10.564 | -2.75% | 21.9 | 26.0 | 1.19 | Pass |
| 29 | normal | 10.987 | 10.628 | -3.27% | 24.1 | 28.4 | 1.18 | Pass |
| 30 | normal | 11.104 | 10.967 | -1.23% | 22.9 | 28.4 | 1.24 | Pass |
| 31 | normal | 11.062 | 10.749 | -2.83% | 23.9 | 29.9 | 1.25 | Pass |
| 32 | normal | 10.872 | 10.559 | -2.88% | 22.5 | 26.6 | 1.18 | Pass |
| 33 | normal | 11.029 | 10.842 | -1.70% | 23.7 | 27.5 | 1.16 | Pass |
| 34 | normal | 10.993 | 10.776 | -1.97% | 23.5 | 28.0 | 1.19 | Pass |
| 35 | normal | 11.265 | 10.956 | -2.74% | 23.3 | 29.6 | 1.27 | Pass |
| 36 | normal | 11.108 | 10.871 | -2.13% | 24.7 | 30.6 | 1.24 | Pass |
| 37 | normal | 10.515 | 10.214 | -2.86% | 24.0 | 28.8 | 1.20 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 38 | normal | 10.703 | 10.439 | -2.47% | 23.3 | 28.9 | 1.24 | Pass |
| 39 | normal | 11.180 | 10.915 | -2.37% | 24.0 | 28.1 | 1.17 | Pass |
| 40 | normal | 11.100 | 10.825 | -2.48% | 23.5 | 28.0 | 1.19 | Pass |
| 41 | normal | 11.174 | 10.846 | -2.94% | 23.1 | 29.1 | 1.26 | Pass |
| 42 | normal | 11.098 | 10.774 | -2.92% | 24.7 | 30.6 | 1.24 | Pass |
| 43 | normal | 10.823 | 10.537 | -2.64% | 24.6 | 30.0 | 1.22 | Pass |
| 44 | normal | 11.059 | 10.728 | -2.99% | 23.3 | 28.7 | 1.23 | Pass |
| 45 | normal | 11.377 | 11.063 | -2.76% | 23.3 | 27.7 | 1.19 | Pass |
| 46 | normal | 10.987 | 10.619 | -3.35% | 22.4 | 26.4 | 1.18 | Pass |
| 47 | normal | 11.104 | 10.871 | -2.10% | 23.4 | 28.5 | 1.22 | Pass |
| 48 | normal | 10.948 | 10.725 | -2.04% | 22.8 | 28.3 | 1.24 | Pass |
| 49 | normal | 11.095 | 10.766 | -2.97% | 23.9 | 28.1 | 1.18 | Pass |
| 50 | normal | 10.779 | 10.549 | -2.13% | 25.2 | 30.2 | 1.20 | Pass |
| 51 | normal | 10.855 | 10.637 | -2.01% | 21.8 | 25.5 | 1.17 | Pass |
| 52 | normal | 10.979 | 10.594 | -3.51% | 22.6 | 26.9 | 1.19 | Pass |
| 53 | normal | 11.134 | 10.875 | -2.33% | 23.4 | 28.5 | 1.22 | Pass |
| 54 | normal | 11.214 | 10.912 | -2.69% | 24.5 | 30.6 | 1.25 | Pass |
| 55 | normal | 11.220 | 10.915 | -2.72% | 23.5 | 27.7 | 1.18 | Pass |
| 56 | normal | 10.862 | 10.525 | -3.10% | 23.8 | 27.6 | 1.16 | Pass |
| 57 | normal | 10.980 | 10.646 | -3.04% | 24.0 | 30.2 | 1.26 | Pass |
| 58 | normal | 11.096 | 10.737 | -3.24% | 23.6 | 26.7 | 1.13 | Pass |
| 59 | normal | 10.978 | 10.594 | -3.50% | 22.2 | 26.6 | 1.20 | Pass |
| 60 | normal | 11.103 | 10.837 | -2.40% | 22.8 | 26.7 | 1.17 | Pass |
| 61 | normal | 10.944 | 10.628 | -2.89% | 23.7 | 28.2 | 1.19 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 62 | normal | 10.905 | 10.725 | -1.65% | 23.4 | 29.5 | 1.26 | Pass |
| 63 | normal | 10.943 | 10.566 | -3.45% | 24.0 | 29.8 | 1.24 | Pass |
| 64 | normal | 11.259 | 10.949 | -2.75% | 23.2 | 28.3 | 1.22 | Pass |
| 65 | normal | 11.178 | 10.827 | -3.14% | 23.5 | 29.8 | 1.27 | Pass |
| 66 | normal | 11.103 | 10.734 | -3.32% | 24.2 | 28.8 | 1.19 | Pass |
| 67 | normal | 11.145 | 10.827 | -2.85% | 23.8 | 28.1 | 1.18 | Pass |
| 68 | normal | 11.030 | 10.734 | -2.68% | 23.3 | 29.4 | 1.26 | Pass |
| 69 | normal | 10.950 | 10.546 | -3.69% | 24.4 | 29.8 | 1.22 | Pass |
| 70 | normal | 11.032 | 10.614 | -3.79% | 23.6 | 29.0 | 1.23 | Pass |
| 71 | normal | 10.949 | 10.739 | -1.92% | 22.6 | 27.6 | 1.22 | Pass |
| 72 | normal | 10.673 | 10.315 | -3.35% | 23.9 | 29.6 | 1.24 | Pass |
| 73 | normal | 11.109 | 10.825 | -2.56% | 24.2 | 29.0 | 1.20 | Pass |
| 74 | normal | 10.742 | 10.546 | -1.82% | 22.2 | 26.4 | 1.19 | Pass |
| 75 | normal | 11.140 | 10.919 | -1.98% | 23.8 | 27.8 | 1.17 | Pass |
| 76 | normal | 10.941 | 10.671 | -2.47% | 24.9 | 30.4 | 1.22 | Pass |
| 77 | normal | 11.294 | 10.925 | -3.27% | 22.9 | 28.4 | 1.24 | Pass |

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Test Photo(s):



Fig 12. During Test



Fig 13. Test Curve

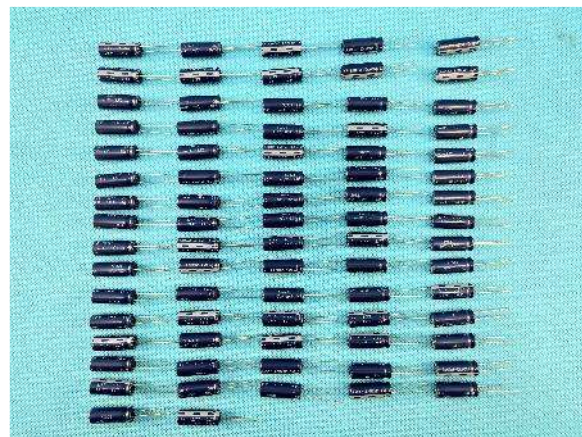


Fig 14. After test



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3. Test Item: Temperature Cycling

Sample Description: Capacitance

Quantities of Specimens: 77 PCS

Test Standards: JESD22 Method JA-104 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

- Low temperature: -40 °C
- High temperature: 85 °C
- Dwell time: 30min
- Transfer time: < 10 s
- Number of test cycles: 5 cycles

Evaluation Method:

- Visual inspection: no damage
- Electrical: Absolute value of $\Delta C/C \leq 10\%$
- ESR $\leq 2^*$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 78 | normal | 10.861 | 10.637 | -2.06% | 22.9 | 25.6 | 1.12 | Pass |
| 79 | normal | 11.061 | 10.828 | -2.11% | 24.2 | 25.9 | 1.07 | Pass |
| 80 | normal | 11.298 | 10.985 | -2.77% | 21.8 | 24.9 | 1.14 | Pass |
| 81 | normal | 10.864 | 10.566 | -2.74% | 22.1 | 25.4 | 1.15 | Pass |
| 82 | normal | 11.024 | 10.846 | -1.61% | 23.3 | 25.2 | 1.08 | Pass |
| 83 | normal | 11.025 | 10.752 | -2.48% | 23.1 | 25.2 | 1.09 | Pass |
| 84 | normal | 10.778 | 10.546 | -2.15% | 23.6 | 26.0 | 1.10 | Pass |
| 85 | normal | 11.055 | 10.919 | -1.23% | 22.6 | 24.4 | 1.08 | Pass |
| 86 | normal | 11.052 | 10.846 | -1.86% | 23.0 | 24.6 | 1.07 | Pass |
| 87 | normal | 11.297 | 11.064 | -2.06% | 23.0 | 25.1 | 1.09 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 88 | normal | 11.214 | 10.946 | -2.39% | 22.8 | 25.1 | 1.10 | Pass |
| 89 | normal | 11.017 | 10.775 | -2.20% | 23.3 | 26.5 | 1.14 | Pass |
| 90 | normal | 11.061 | 10.894 | -1.51% | 25.0 | 27.8 | 1.11 | Pass |
| 91 | normal | 11.020 | 10.834 | -1.69% | 23.6 | 26.8 | 1.13 | Pass |
| 92 | normal | 11.058 | 10.915 | -1.29% | 23.5 | 25.1 | 1.07 | Pass |
| 93 | normal | 10.898 | 10.727 | -1.57% | 24.1 | 26.3 | 1.09 | Pass |
| 94 | normal | 11.055 | 10.925 | -1.18% | 23.9 | 25.8 | 1.08 | Pass |
| 95 | normal | 10.904 | 10.634 | -2.48% | 22.3 | 24.5 | 1.10 | Pass |
| 96 | normal | 11.220 | 10.959 | -2.33% | 22.5 | 24.5 | 1.09 | Pass |
| 97 | normal | 11.221 | 10.942 | -2.49% | 24.1 | 25.8 | 1.07 | Pass |
| 98 | normal | 11.180 | 10.976 | -1.82% | 23.2 | 25.6 | 1.10 | Pass |
| 99 | normal | 11.062 | 10.827 | -2.12% | 23.7 | 25.6 | 1.08 | Pass |
| 100 | normal | 10.824 | 10.635 | -1.75% | 25.2 | 27.0 | 1.07 | Pass |
| 101 | normal | 10.948 | 10.743 | -1.87% | 22.9 | 25.2 | 1.10 | Pass |
| 102 | normal | 11.064 | 10.851 | -1.93% | 22.4 | 24.9 | 1.11 | Pass |
| 103 | normal | 11.143 | 10.845 | -2.67% | 22.7 | 24.5 | 1.08 | Pass |
| 104 | normal | 10.714 | 10.566 | -1.38% | 23.2 | 24.8 | 1.07 | Pass |
| 105 | normal | 10.753 | 10.542 | -1.96% | 24.3 | 27.5 | 1.13 | Pass |
| 106 | normal | 11.112 | 10.934 | -1.60% | 22.7 | 24.1 | 1.06 | Pass |
| 107 | normal | 11.226 | 10.911 | -2.81% | 22.6 | 24.2 | 1.07 | Pass |
| 108 | normal | 10.911 | 10.734 | -1.62% | 24.6 | 27.8 | 1.13 | Pass |
| 109 | normal | 11.148 | 10.985 | -1.46% | 25.5 | 27.8 | 1.09 | Pass |
| 110 | normal | 10.860 | 10.617 | -2.24% | 24.2 | 26.6 | 1.10 | Pass |
| 111 | normal | 11.101 | 10.934 | -1.50% | 23.2 | 25.1 | 1.08 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 112 | normal | 11.101 | 10.864 | -2.13% | 23.0 | 24.6 | 1.07 | Pass |
| 113 | normal | 10.822 | 10.628 | -1.79% | 25.3 | 27.6 | 1.09 | Pass |
| 114 | normal | 11.219 | 10.967 | -2.25% | 22.8 | 24.9 | 1.09 | Pass |
| 115 | normal | 10.902 | 10.742 | -1.47% | 24.1 | 25.8 | 1.07 | Pass |
| 116 | normal | 10.941 | 10.776 | -1.51% | 23.2 | 24.6 | 1.06 | Pass |
| 117 | normal | 10.986 | 10.767 | -1.99% | 23.8 | 25.7 | 1.08 | Pass |
| 118 | normal | 10.866 | 10.635 | -2.13% | 23.5 | 25.4 | 1.08 | Pass |
| 119 | normal | 10.869 | 10.725 | -1.32% | 23.0 | 24.6 | 1.07 | Pass |
| 120 | normal | 11.054 | 10.834 | -1.99% | 22.8 | 25.9 | 1.14 | Pass |
| 121 | normal | 10.975 | 10.659 | -2.88% | 23.4 | 26.6 | 1.14 | Pass |
| 122 | normal | 10.855 | 10.634 | -2.04% | 22.4 | 24.0 | 1.07 | Pass |
| 123 | normal | 11.098 | 10.825 | -2.46% | 23.8 | 25.9 | 1.09 | Pass |
| 124 | normal | 11.213 | 10.942 | -2.42% | 22.9 | 25.2 | 1.10 | Pass |
| 125 | normal | 11.057 | 10.776 | -2.54% | 23.4 | 26.0 | 1.11 | Pass |
| 126 | normal | 11.023 | 10.727 | -2.69% | 23.5 | 25.4 | 1.08 | Pass |
| 127 | normal | 11.099 | 10.935 | -1.48% | 23.9 | 25.6 | 1.07 | Pass |
| 128 | normal | 11.218 | 10.966 | -2.25% | 23.5 | 25.9 | 1.10 | Pass |
| 129 | normal | 11.135 | 10.946 | -1.70% | 25.0 | 27.0 | 1.08 | Pass |
| 130 | normal | 10.897 | 10.752 | -1.33% | 23.4 | 25.0 | 1.07 | Pass |
| 131 | normal | 11.063 | 10.911 | -1.37% | 23.5 | 25.6 | 1.09 | Pass |
| 132 | normal | 11.260 | 10.945 | -2.80% | 21.7 | 23.7 | 1.09 | Pass |
| 133 | normal | 10.985 | 10.825 | -1.46% | 24.0 | 25.2 | 1.05 | Pass |
| 134 | normal | 10.784 | 10.646 | -1.28% | 23.8 | 26.4 | 1.11 | Pass |
| 135 | normal | 10.785 | 10.574 | -1.96% | 22.8 | 24.9 | 1.09 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 136 | normal | 11.100 | 10.837 | -2.37% | 23.2 | 24.8 | 1.07 | Pass |
| 137 | normal | 10.827 | 10.628 | -1.84% | 25.3 | 27.1 | 1.07 | Pass |
| 138 | normal | 10.987 | 10.846 | -1.28% | 23.4 | 26.6 | 1.14 | Pass |
| 139 | normal | 11.261 | 10.937 | -2.88% | 24.2 | 25.7 | 1.06 | Pass |
| 140 | normal | 10.912 | 10.717 | -1.79% | 24.5 | 26.5 | 1.08 | Pass |
| 141 | normal | 10.949 | 10.734 | -1.96% | 22.8 | 24.6 | 1.08 | Pass |
| 142 | normal | 10.992 | 10.764 | -2.07% | 25.2 | 27.2 | 1.08 | Pass |
| 143 | normal | 10.750 | 10.637 | -1.05% | 24.1 | 25.8 | 1.07 | Pass |
| 144 | normal | 10.832 | 10.529 | -2.80% | 24.4 | 27.6 | 1.13 | Pass |
| 145 | normal | 11.069 | 10.834 | -2.12% | 23.0 | 24.8 | 1.08 | Pass |
| 146 | normal | 11.098 | 10.846 | -2.27% | 22.1 | 25.4 | 1.15 | Pass |
| 147 | normal | 10.627 | 10.419 | -1.96% | 23.7 | 25.8 | 1.09 | Pass |
| 148 | normal | 11.098 | 10.946 | -1.37% | 22.9 | 25.2 | 1.10 | Pass |
| 149 | normal | 10.899 | 10.676 | -2.05% | 22.6 | 24.4 | 1.08 | Pass |
| 150 | normal | 10.862 | 10.685 | -1.63% | 23.4 | 26.0 | 1.11 | Pass |
| 151 | normal | 11.020 | 10.734 | -2.60% | 23.3 | 25.4 | 1.09 | Pass |
| 152 | normal | 10.940 | 10.715 | -2.06% | 22.7 | 24.1 | 1.06 | Pass |
| 153 | normal | 10.981 | 10.746 | -2.14% | 22.7 | 24.3 | 1.07 | Pass |
| 154 | normal | 11.066 | 10.774 | -2.64% | 21.6 | 23.9 | 1.11 | Pass |

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Test Photo(s):



Fig 15. During Test

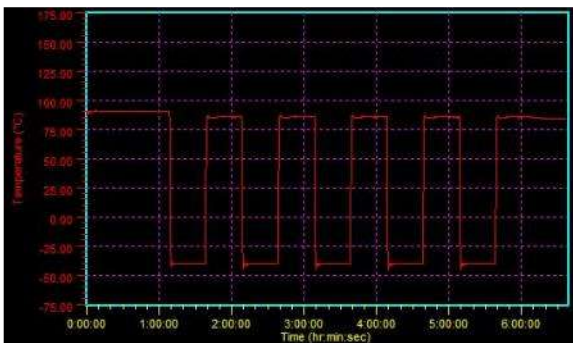


Fig 16. Test Curve

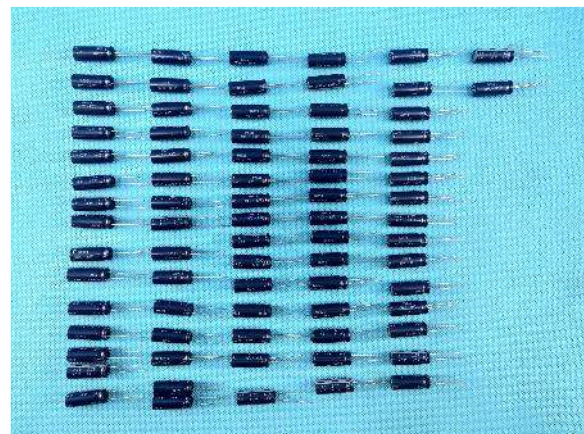


Fig 17. After test



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4. Test Item: Biased Humidity

Sample Description: Capacitance

Quantities of Specimens: 77 PCS

Test Standards: MIL-STD-202 Method 103 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Test Temperature: 85°C
 Test Humidity: 85%RH
 Test duration: 1000 hours
 Bias voltage: 2.5V

Evaluation Method:

Visual inspection: no damage
 Electrical: Absolute value of $\Delta C/C \leq 30\%$
 ESR $\leq 4 \times$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 155 | normal | 10.944 | 8.445 | -22.83% | 22.9 | 42.8 | 1.87 | Pass |
| 156 | normal | 11.264 | 8.649 | -23.22% | 23.4 | 42.6 | 1.82 | Pass |
| 157 | normal | 10.818 | 8.369 | -22.64% | 24.2 | 46.7 | 1.93 | Pass |
| 158 | normal | 10.778 | 8.472 | -21.40% | 24.1 | 45.5 | 1.89 | Pass |
| 159 | normal | 10.973 | 8.549 | -22.09% | 22.4 | 41.2 | 1.84 | Pass |
| 160 | normal | 10.702 | 8.437 | -21.16% | 23.5 | 45.8 | 1.95 | Pass |
| 161 | normal | 11.372 | 8.594 | -24.43% | 23.0 | 42.6 | 1.85 | Pass |
| 162 | normal | 11.017 | 8.473 | -23.09% | 24.1 | 45.5 | 1.89 | Pass |
| 163 | normal | 11.379 | 8.564 | -24.74% | 22.1 | 42.0 | 1.90 | Pass |
| 164 | normal | 10.902 | 8.519 | -21.86% | 23.3 | 43.8 | 1.88 | Pass |
| 165 | normal | 11.020 | 8.537 | -22.53% | 23.1 | 44.4 | 1.92 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 166 | normal | 10.976 | 8.529 | -22.29% | 23.6 | 45.8 | 1.94 | Pass |
| 167 | normal | 10.701 | 8.194 | -23.43% | 24.0 | 44.9 | 1.87 | Pass |
| 168 | normal | 11.063 | 8.573 | -22.51% | 22.9 | 44.0 | 1.92 | Pass |
| 169 | normal | 10.904 | 8.496 | -22.08% | 24.0 | 43.4 | 1.81 | Pass |
| 170 | normal | 11.221 | 8.439 | -24.79% | 24.2 | 46.9 | 1.94 | Pass |
| 171 | normal | 10.943 | 8.427 | -22.99% | 23.4 | 44.0 | 1.88 | Pass |
| 172 | normal | 11.259 | 8.564 | -23.94% | 22.8 | 42.4 | 1.86 | Pass |
| 173 | normal | 10.947 | 8.462 | -22.70% | 23.2 | 42.7 | 1.84 | Pass |
| 174 | normal | 11.263 | 8.495 | -24.58% | 23.8 | 45.2 | 1.90 | Pass |
| 175 | normal | 10.905 | 8.377 | -23.18% | 23.7 | 43.6 | 1.84 | Pass |
| 176 | normal | 10.952 | 8.594 | -21.53% | 23.1 | 42.0 | 1.82 | Pass |
| 177 | normal | 10.872 | 8.573 | -21.15% | 23.7 | 44.6 | 1.88 | Pass |
| 178 | normal | 11.111 | 8.437 | -24.07% | 23.4 | 45.4 | 1.94 | Pass |
| 179 | normal | 10.631 | 8.397 | -21.01% | 24.9 | 48.1 | 1.93 | Pass |
| 180 | normal | 10.792 | 8.445 | -21.75% | 24.5 | 45.8 | 1.87 | Pass |
| 181 | normal | 11.058 | 8.418 | -23.87% | 23.8 | 43.3 | 1.82 | Pass |
| 182 | normal | 10.944 | 8.427 | -23.00% | 23.4 | 44.7 | 1.91 | Pass |
| 183 | normal | 10.626 | 8.364 | -21.29% | 23.1 | 42.7 | 1.85 | Pass |
| 184 | normal | 10.858 | 8.394 | -22.69% | 23.1 | 42.0 | 1.82 | Pass |
| 185 | normal | 10.940 | 8.473 | -22.55% | 22.6 | 43.6 | 1.93 | Pass |
| 186 | normal | 10.823 | 8.473 | -21.71% | 22.7 | 42.9 | 1.89 | Pass |
| 187 | normal | 10.902 | 8.349 | -23.42% | 22.6 | 41.6 | 1.84 | Pass |
| 188 | normal | 10.903 | 8.369 | -23.24% | 23.1 | 43.9 | 1.90 | Pass |
| 189 | normal | 11.144 | 8.543 | -23.34% | 22.7 | 41.8 | 1.84 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 190 | normal | 10.669 | 8.375 | -21.50% | 23.2 | 44.8 | 1.93 | Pass |
| 191 | normal | 10.948 | 8.594 | -21.50% | 24.7 | 46.2 | 1.87 | Pass |
| 192 | normal | 10.937 | 8.256 | -24.51% | 22.4 | 40.8 | 1.82 | Pass |
| 193 | normal | 11.015 | 8.658 | -21.40% | 22.6 | 40.9 | 1.81 | Pass |
| 194 | normal | 10.901 | 8.530 | -21.75% | 23.6 | 45.8 | 1.94 | Pass |
| 195 | normal | 11.175 | 8.419 | -24.66% | 24.1 | 43.9 | 1.82 | Pass |
| 196 | normal | 10.979 | 8.552 | -22.11% | 20.9 | 39.3 | 1.88 | Pass |
| 197 | normal | 10.627 | 8.264 | -22.24% | 24.5 | 47.5 | 1.94 | Pass |
| 198 | normal | 10.980 | 8.582 | -21.84% | 24.0 | 44.4 | 1.85 | Pass |
| 199 | normal | 11.138 | 8.594 | -22.84% | 23.3 | 42.4 | 1.82 | Pass |
| 200 | normal | 10.978 | 8.473 | -22.82% | 24.4 | 47.1 | 1.93 | Pass |
| 201 | normal | 11.056 | 8.397 | -24.05% | 23.7 | 45.3 | 1.91 | Pass |
| 202 | normal | 10.827 | 8.245 | -23.85% | 23.3 | 42.4 | 1.82 | Pass |
| 203 | normal | 11.260 | 8.518 | -24.35% | 23.8 | 44.3 | 1.86 | Pass |
| 204 | normal | 11.024 | 8.472 | -23.15% | 22.8 | 42.6 | 1.87 | Pass |
| 205 | normal | 11.140 | 8.649 | -22.36% | 24.7 | 46.7 | 1.89 | Pass |
| 206 | normal | 10.863 | 8.537 | -21.41% | 23.5 | 43.2 | 1.84 | Pass |
| 207 | normal | 11.021 | 8.518 | -22.71% | 23.6 | 44.8 | 1.90 | Pass |
| 208 | normal | 10.945 | 8.427 | -23.01% | 24.0 | 46.6 | 1.94 | Pass |
| 209 | normal | 11.184 | 8.764 | -21.64% | 23.9 | 44.9 | 1.88 | Pass |
| 210 | normal | 11.102 | 8.645 | -22.13% | 25.3 | 49.3 | 1.95 | Pass |
| 211 | normal | 10.992 | 8.349 | -24.04% | 24.8 | 45.4 | 1.83 | Pass |
| 212 | normal | 10.990 | 8.369 | -23.85% | 23.7 | 43.6 | 1.84 | Pass |
| 213 | normal | 11.073 | 8.530 | -22.97% | 23.6 | 44.8 | 1.90 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 214 | normal | 10.750 | 8.219 | -23.54% | 24.5 | 46.1 | 1.88 | Pass |
| 215 | normal | 10.515 | 8.137 | -22.62% | 26.2 | 50.8 | 1.94 | Pass |
| 216 | normal | 11.108 | 8.397 | -24.41% | 24.8 | 45.1 | 1.82 | Pass |
| 217 | normal | 10.901 | 8.346 | -23.44% | 23.7 | 43.6 | 1.84 | Pass |
| 218 | normal | 10.667 | 8.265 | -22.52% | 22.9 | 43.5 | 1.90 | Pass |
| 219 | normal | 10.743 | 8.349 | -22.28% | 22.5 | 41.4 | 1.84 | Pass |
| 220 | normal | 10.944 | 8.561 | -21.77% | 23.1 | 44.6 | 1.93 | Pass |
| 221 | normal | 11.177 | 8.572 | -23.31% | 24.3 | 46.2 | 1.90 | Pass |
| 222 | normal | 11.139 | 8.462 | -24.03% | 24.8 | 48.1 | 1.94 | Pass |
| 223 | normal | 10.943 | 8.349 | -23.70% | 22.8 | 42.9 | 1.88 | Pass |
| 224 | normal | 10.946 | 8.516 | -22.20% | 22.7 | 44.0 | 1.94 | Pass |
| 225 | normal | 10.787 | 8.433 | -21.82% | 23.2 | 44.8 | 1.93 | Pass |
| 226 | normal | 11.026 | 8.618 | -21.84% | 23.6 | 44.1 | 1.87 | Pass |
| 227 | normal | 10.897 | 8.219 | -24.58% | 24.0 | 46.6 | 1.94 | Pass |
| 228 | normal | 11.094 | 8.437 | -23.95% | 22.0 | 41.4 | 1.88 | Pass |
| 229 | normal | 10.658 | 8.349 | -21.66% | 23.7 | 44.1 | 1.86 | Pass |
| 230 | normal | 10.744 | 8.230 | -23.40% | 23.6 | 43.4 | 1.84 | Pass |
| 231 | normal | 10.899 | 8.445 | -22.52% | 23.4 | 44.0 | 1.88 | Pass |

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Test Photo(s):



Fig 18. During Test



Fig 19. During Test



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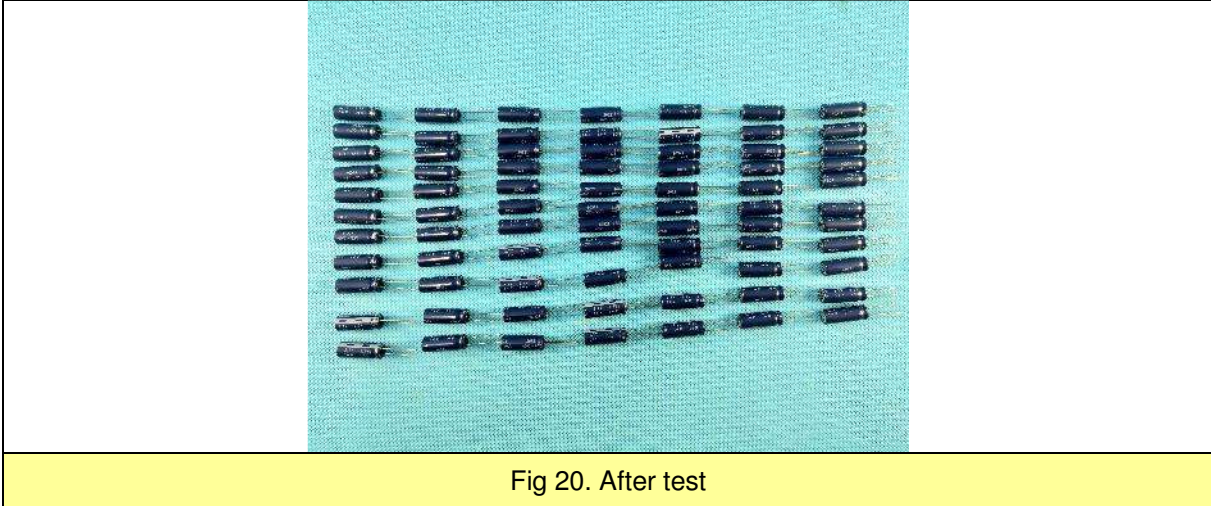


Fig 20. After test



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5. Test Item: Operational Life

Sample Description: Capacitance

Quantities of Specimens: 77 PCS

Test Standards: MIL-STD-202 Method 108 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Test Temperature: 85°C

Test duration: 1000 hours

Bias voltage: 2.5V

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 30\%$

ESR ≤ 4 * initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 232 | normal | 11.103 | 9.365 | -15.65% | 23.2 | 33.9 | 1.46 | Pass |
| 233 | normal | 10.980 | 9.286 | -15.43% | 22.4 | 31.8 | 1.42 | Pass |
| 234 | normal | 11.020 | 9.345 | -15.20% | 24.1 | 36.4 | 1.51 | Pass |
| 235 | normal | 10.819 | 9.184 | -15.11% | 23.4 | 33.5 | 1.43 | Pass |
| 236 | normal | 10.825 | 9.261 | -14.45% | 24.4 | 33.8 | 1.39 | Pass |
| 237 | normal | 10.983 | 9.168 | -16.53% | 22.8 | 34.0 | 1.49 | Pass |
| 238 | normal | 10.787 | 9.243 | -14.31% | 21.8 | 33.1 | 1.52 | Pass |
| 239 | normal | 10.946 | 9.267 | -15.34% | 24.3 | 33.2 | 1.37 | Pass |
| 240 | normal | 10.982 | 9.186 | -16.35% | 21.7 | 31.2 | 1.44 | Pass |
| 241 | normal | 10.700 | 9.173 | -14.27% | 25.1 | 36.6 | 1.46 | Pass |
| 242 | normal | 10.975 | 9.267 | -15.56% | 23.2 | 36.0 | 1.55 | Pass |
| 243 | normal | 10.740 | 9.143 | -14.87% | 23.8 | 34.7 | 1.46 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 244 | normal | 11.015 | 9.364 | -14.99% | 24.5 | 37.2 | 1.52 | Pass |
| 245 | normal | 11.015 | 9.352 | -15.10% | 24.1 | 35.7 | 1.48 | Pass |
| 246 | normal | 10.937 | 9.364 | -14.38% | 21.1 | 30.8 | 1.46 | Pass |
| 247 | normal | 10.816 | 9.116 | -15.72% | 23.9 | 36.1 | 1.51 | Pass |
| 248 | normal | 10.969 | 9.275 | -15.44% | 22.0 | 33.7 | 1.53 | Pass |
| 249 | normal | 10.535 | 9.029 | -14.30% | 23.0 | 34.5 | 1.50 | Pass |
| 250 | normal | 11.091 | 9.341 | -15.78% | 23.4 | 34.4 | 1.47 | Pass |
| 251 | normal | 11.009 | 9.319 | -15.35% | 22.8 | 31.7 | 1.39 | Pass |
| 252 | normal | 10.975 | 9.215 | -16.04% | 22.2 | 31.5 | 1.42 | Pass |
| 253 | normal | 11.410 | 9.517 | -16.59% | 20.5 | 29.9 | 1.46 | Pass |
| 254 | normal | 11.015 | 9.276 | -15.79% | 21.9 | 32.6 | 1.49 | Pass |
| 255 | normal | 11.205 | 9.315 | -16.87% | 21.8 | 32.0 | 1.47 | Pass |
| 256 | normal | 10.976 | 9.364 | -14.69% | 23.1 | 32.1 | 1.39 | Pass |
| 257 | normal | 11.095 | 9.372 | -15.53% | 21.9 | 32.0 | 1.46 | Pass |
| 258 | normal | 10.818 | 9.074 | -16.12% | 22.3 | 34.1 | 1.53 | Pass |
| 259 | normal | 10.971 | 9.261 | -15.59% | 22.4 | 33.4 | 1.49 | Pass |
| 260 | normal | 10.853 | 9.168 | -15.53% | 23.6 | 32.9 | 1.39 | Pass |
| 261 | normal | 11.015 | 9.243 | -16.09% | 21.9 | 31.8 | 1.45 | Pass |
| 262 | normal | 11.050 | 9.364 | -15.26% | 23.2 | 34.6 | 1.49 | Pass |
| 263 | normal | 10.813 | 9.116 | -15.69% | 21.7 | 31.9 | 1.47 | Pass |
| 264 | normal | 10.856 | 9.275 | -14.56% | 22.8 | 34.4 | 1.51 | Pass |
| 265 | normal | 10.817 | 9.119 | -15.70% | 23.8 | 34.0 | 1.43 | Pass |
| 266 | normal | 10.897 | 9.215 | -15.44% | 23.2 | 33.4 | 1.44 | Pass |
| 267 | normal | 10.738 | 9.217 | -14.16% | 22.8 | 34.0 | 1.49 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 268 | normal | 11.054 | 9.286 | -15.99% | 22.4 | 33.2 | 1.48 | Pass |
| 269 | normal | 11.134 | 9.345 | -16.07% | 22.2 | 32.4 | 1.46 | Pass |
| 270 | normal | 10.661 | 9.084 | -14.79% | 22.8 | 31.4 | 1.38 | Pass |
| 271 | normal | 10.977 | 9.243 | -15.80% | 23.4 | 34.2 | 1.46 | Pass |
| 272 | normal | 11.133 | 9.364 | -15.89% | 21.8 | 32.5 | 1.49 | Pass |
| 273 | normal | 11.171 | 9.352 | -16.28% | 23.6 | 35.2 | 1.49 | Pass |
| 274 | normal | 10.736 | 9.184 | -14.46% | 21.8 | 33.1 | 1.52 | Pass |
| 275 | normal | 10.699 | 9.061 | -15.31% | 21.8 | 31.6 | 1.45 | Pass |
| 276 | normal | 10.852 | 9.165 | -15.55% | 22.3 | 32.1 | 1.44 | Pass |
| 277 | normal | 11.134 | 9.318 | -16.31% | 22.4 | 32.7 | 1.46 | Pass |
| 278 | normal | 10.857 | 9.175 | -15.49% | 23.1 | 33.0 | 1.43 | Pass |
| 279 | normal | 10.898 | 9.163 | -15.92% | 22.3 | 33.7 | 1.51 | Pass |
| 280 | normal | 11.055 | 9.327 | -15.63% | 23.6 | 35.4 | 1.50 | Pass |
| 281 | normal | 10.816 | 9.235 | -14.62% | 23.0 | 31.8 | 1.38 | Pass |
| 282 | normal | 10.936 | 9.346 | -14.54% | 23.3 | 34.0 | 1.46 | Pass |
| 283 | normal | 11.170 | 9.328 | -16.49% | 22.4 | 31.1 | 1.39 | Pass |
| 284 | normal | 10.732 | 9.164 | -14.61% | 23.4 | 35.3 | 1.51 | Pass |
| 285 | normal | 10.850 | 9.267 | -14.59% | 23.5 | 35.7 | 1.52 | Pass |
| 286 | normal | 11.170 | 9.343 | -16.36% | 22.7 | 32.7 | 1.44 | Pass |
| 287 | normal | 11.049 | 9.364 | -15.25% | 22.2 | 32.6 | 1.47 | Pass |
| 288 | normal | 10.855 | 9.252 | -14.77% | 22.7 | 33.8 | 1.49 | Pass |
| 289 | normal | 11.332 | 9.467 | -16.46% | 21.9 | 33.3 | 1.52 | Pass |
| 290 | normal | 10.819 | 9.186 | -15.09% | 24.1 | 34.9 | 1.45 | Pass |
| 291 | normal | 11.048 | 9.173 | -16.97% | 23.5 | 32.0 | 1.36 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 292 | normal | 10.778 | 9.186 | -14.77% | 23.0 | 33.8 | 1.47 | Pass |
| 293 | normal | 11.093 | 9.345 | -15.76% | 23.7 | 34.6 | 1.46 | Pass |
| 294 | normal | 11.015 | 9.184 | -16.62% | 22.5 | 34.9 | 1.55 | Pass |
| 295 | normal | 10.697 | 9.166 | -14.31% | 22.5 | 32.9 | 1.46 | Pass |
| 296 | normal | 10.893 | 9.345 | -14.21% | 23.1 | 35.1 | 1.52 | Pass |
| 297 | normal | 10.896 | 9.184 | -15.71% | 23.5 | 35.5 | 1.51 | Pass |
| 298 | normal | 10.932 | 9.261 | -15.29% | 23.2 | 34.8 | 1.50 | Pass |
| 299 | normal | 10.420 | 8.876 | -14.82% | 23.4 | 33.7 | 1.44 | Pass |
| 300 | normal | 10.933 | 9.175 | -16.08% | 22.4 | 32.7 | 1.46 | Pass |
| 301 | normal | 10.737 | 9.065 | -15.57% | 22.7 | 34.7 | 1.53 | Pass |
| 302 | normal | 11.095 | 9.286 | -16.30% | 22.2 | 30.6 | 1.38 | Pass |
| 303 | normal | 10.817 | 9.146 | -15.45% | 23.6 | 35.9 | 1.52 | Pass |
| 304 | normal | 10.778 | 9.128 | -15.31% | 23.7 | 34.4 | 1.45 | Pass |
| 305 | normal | 10.975 | 9.164 | -16.50% | 24.9 | 35.9 | 1.44 | Pass |
| 306 | normal | 10.661 | 9.084 | -14.79% | 24.1 | 35.2 | 1.46 | Pass |
| 307 | normal | 10.738 | 9.043 | -15.79% | 23.5 | 32.4 | 1.38 | Pass |
| 308 | normal | 10.816 | 9.167 | -15.25% | 23.5 | 34.3 | 1.46 | Pass |

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Test Photo(s):



Fig 21. During Test

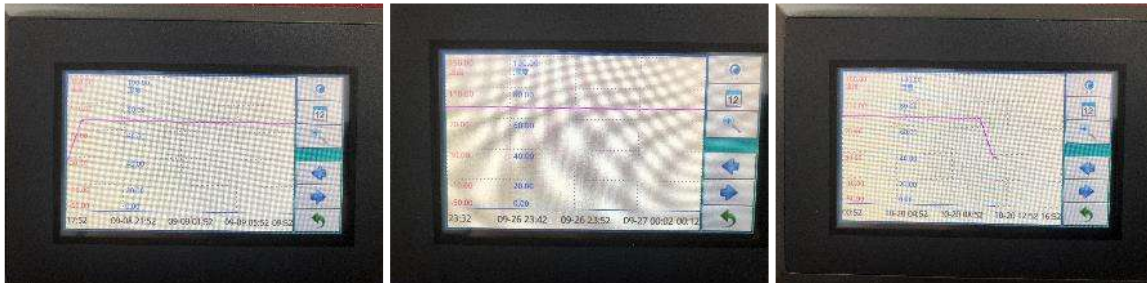


Fig 22. Test curve



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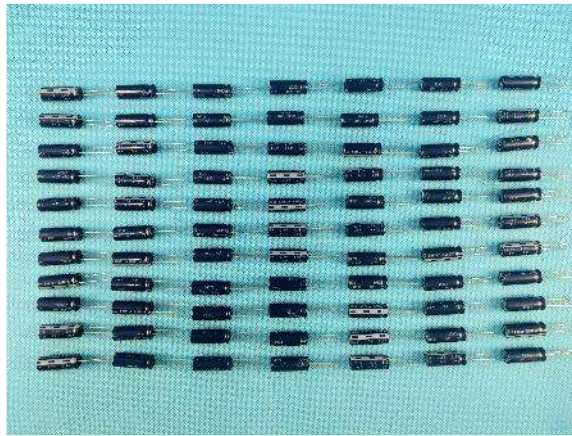


Fig 23. After test



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6. Test Item: Physical Dimension

Sample Description: Capacitance

Quantities of Specimens: 30 PCS

Test Standards: JESD22 Method JB-100 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Evaluation Method:

Verify physical dimensions to the applicable device detail specification.

Test Result(s):

| Sample No. | D (10±0.5mm) | H (28±1mm) | P (5±0.5mm) | d (0.6±0.1mm) | A (≤30mm) | Conclusion |
|------------|-----------------|---------------|----------------|------------------|--------------|------------|
| 359# | 10.24 | 27.80 | 5.24 | 0.68 | 27.79 | Pass |
| 360# | 10.24 | 27.71 | 5.34 | 0.68 | 28.12 | Pass |
| 361# | 10.16 | 27.76 | 5.17 | 0.69 | 28.16 | Pass |
| 362# | 10.18 | 27.71 | 5.25 | 0.70 | 28.77 | Pass |
| 363# | 10.08 | 27.73 | 5.26 | 0.69 | 28.79 | Pass |
| 364# | 10.12 | 27.62 | 5.43 | 0.69 | 27.85 | Pass |
| 365# | 10.16 | 27.57 | 5.31 | 0.69 | 28.10 | Pass |
| 366# | 10.11 | 27.74 | 5.34 | 0.69 | 28.77 | Pass |
| 367# | 10.22 | 27.63 | 5.24 | 0.69 | 28.79 | Pass |
| 368# | 10.16 | 27.76 | 5.30 | 0.69 | 28.77 | Pass |
| 369# | 10.21 | 27.52 | 5.39 | 0.69 | 28.15 | Pass |
| 370# | 10.13 | 27.53 | 5.27 | 0.69 | 28.80 | Pass |
| 371# | 10.21 | 27.70 | 5.20 | 0.69 | 27.80 | Pass |
| 372# | 10.24 | 27.75 | 5.22 | 0.69 | 27.83 | Pass |
| 373# | 10.17 | 27.83 | 5.34 | 0.70 | 27.80 | Pass |
| 374# | 10.26 | 27.73 | 5.23 | 0.70 | 27.79 | Pass |
| 375# | 10.21 | 27.80 | 5.29 | 0.69 | 27.80 | Pass |



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| Sample No. | D (10±0.5mm) | H (28±1mm) | P (5±0.5mm) | d (0.6±0.1mm) | A (≤30mm) | Conclusion |
|------------|-----------------|---------------|----------------|------------------|--------------|------------|
| 376# | 10.19 | 27.64 | 5.35 | 0.70 | 27.78 | Pass |
| 377# | 10.19 | 27.72 | 5.36 | 0.69 | 27.80 | Pass |
| 378# | 10.17 | 27.66 | 5.28 | 0.70 | 27.79 | Pass |
| 379# | 10.20 | 27.65 | 5.34 | 0.69 | 27.75 | Pass |
| 380# | 10.23 | 27.83 | 5.26 | 0.69 | 27.80 | Pass |
| 381# | 10.18 | 27.62 | 5.32 | 0.70 | 27.78 | Pass |
| 382# | 10.16 | 27.75 | 5.36 | 0.69 | 28.80 | Pass |
| 383# | 10.22 | 27.82 | 5.28 | 0.70 | 28.05 | Pass |
| 384# | 10.24 | 27.79 | 5.30 | 0.70 | 28.15 | Pass |
| 385# | 10.23 | 27.71 | 5.29 | 0.70 | 28.05 | Pass |
| 386# | 10.15 | 27.80 | 5.34 | 0.69 | 28.01 | Pass |
| 387# | 10.14 | 27.66 | 5.22 | 0.69 | 28.01 | Pass |
| 388# | 10.21 | 27.78 | 5.33 | 0.70 | 28.05 | Pass |

Test Photo(s):

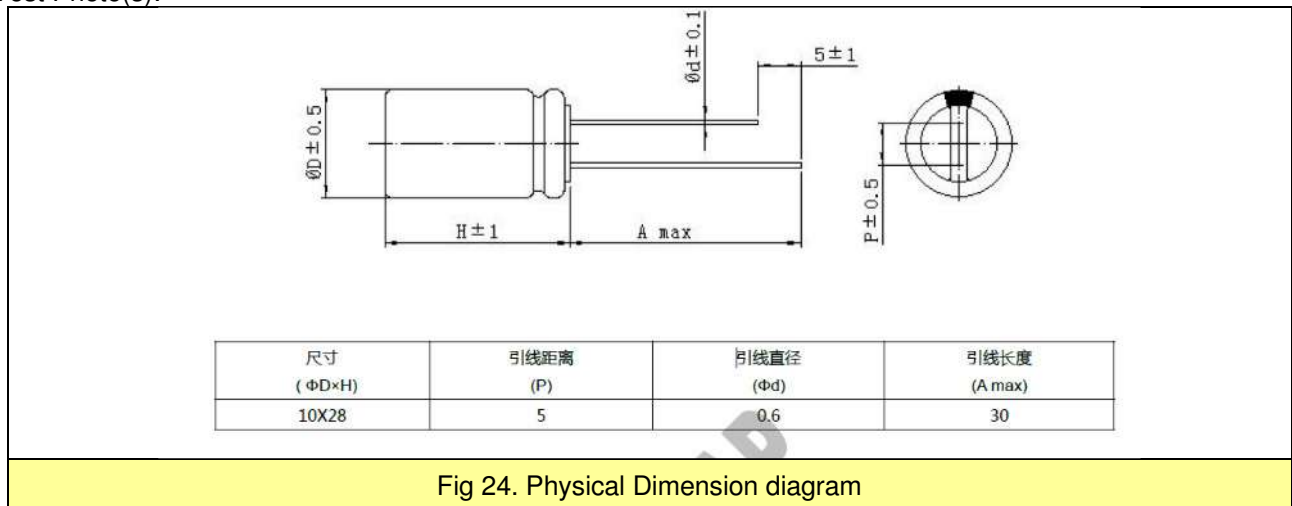


Fig 24. Physical Dimension diagram



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7. Test Item: Terminal Strength (Leaded)

Sample Description: Capacitance

Quantities of Specimens: 30 PCS

Test Standards: MIL-STD-202 Method 211 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Test condition A (pull test)

Applied force: 454 g

Duration of applied force: 10s

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR ≤ 2 * initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 359 | normal | 11.134 | 11.131 | -0.03% | 22.9 | 22.9 | 1.00 | Pass |
| 360 | normal | 11.086 | 11.086 | 0.00% | 22.6 | 22.8 | 1.01 | Pass |
| 361 | normal | 10.981 | 10.981 | 0.00% | 22.7 | 22.9 | 1.01 | Pass |
| 362 | normal | 10.740 | 10.737 | -0.03% | 22.2 | 22.4 | 1.01 | Pass |
| 363 | normal | 11.098 | 11.095 | -0.03% | 23.0 | 23.1 | 1.00 | Pass |
| 364 | normal | 10.931 | 10.930 | -0.01% | 22.3 | 22.3 | 1.00 | Pass |
| 365 | normal | 11.049 | 11.045 | -0.04% | 23.1 | 23.1 | 1.00 | Pass |
| 366 | normal | 10.818 | 10.815 | -0.03% | 21.7 | 21.7 | 1.00 | Pass |
| 367 | normal | 10.814 | 10.814 | 0.00% | 23.7 | 23.9 | 1.01 | Pass |
| 368 | normal | 10.815 | 10.815 | 0.00% | 23.0 | 23.1 | 1.00 | Pass |
| 369 | normal | 11.091 | 11.090 | -0.01% | 23.3 | 23.3 | 1.00 | Pass |
| 370 | normal | 10.975 | 10.972 | -0.03% | 23.8 | 23.7 | 1.00 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 371 | normal | 10.858 | 10.858 | 0.00% | 21.9 | 21.9 | 1.00 | Pass |
| 372 | normal | 10.579 | 10.577 | -0.02% | 23.7 | 23.9 | 1.01 | Pass |
| 373 | normal | 10.778 | 10.775 | -0.03% | 23.9 | 24.0 | 1.00 | Pass |
| 374 | normal | 10.818 | 10.814 | -0.04% | 23.4 | 23.5 | 1.00 | Pass |
| 375 | normal | 10.701 | 10.701 | 0.00% | 24.7 | 24.7 | 1.00 | Pass |
| 376 | normal | 10.812 | 10.810 | -0.02% | 21.9 | 21.9 | 1.00 | Pass |
| 377 | normal | 10.814 | 10.811 | -0.03% | 23.7 | 23.9 | 1.01 | Pass |
| 378 | normal | 10.693 | 10.693 | 0.00% | 22.1 | 22.4 | 1.01 | Pass |
| 379 | normal | 11.087 | 11.085 | -0.02% | 24.8 | 24.9 | 1.00 | Pass |
| 380 | normal | 10.772 | 10.770 | -0.02% | 23.6 | 23.8 | 1.01 | Pass |
| 381 | normal | 10.965 | 10.965 | 0.00% | 23.2 | 23.5 | 1.01 | Pass |
| 382 | normal | 10.857 | 10.854 | -0.03% | 22.8 | 22.9 | 1.00 | Pass |
| 383 | normal | 11.015 | 11.012 | -0.03% | 22.4 | 22.7 | 1.01 | Pass |
| 384 | normal | 10.780 | 10.780 | 0.00% | 23.0 | 23.2 | 1.01 | Pass |
| 385 | normal | 10.975 | 10.971 | -0.04% | 23.5 | 23.7 | 1.01 | Pass |
| 386 | normal | 10.660 | 10.660 | 0.00% | 24.2 | 24.2 | 1.00 | Pass |
| 387 | normal | 10.779 | 10.775 | -0.04% | 23.3 | 23.5 | 1.01 | Pass |
| 388 | normal | 11.254 | 11.252 | -0.02% | 22.6 | 22.8 | 1.01 | Pass |

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Test Photo(s):

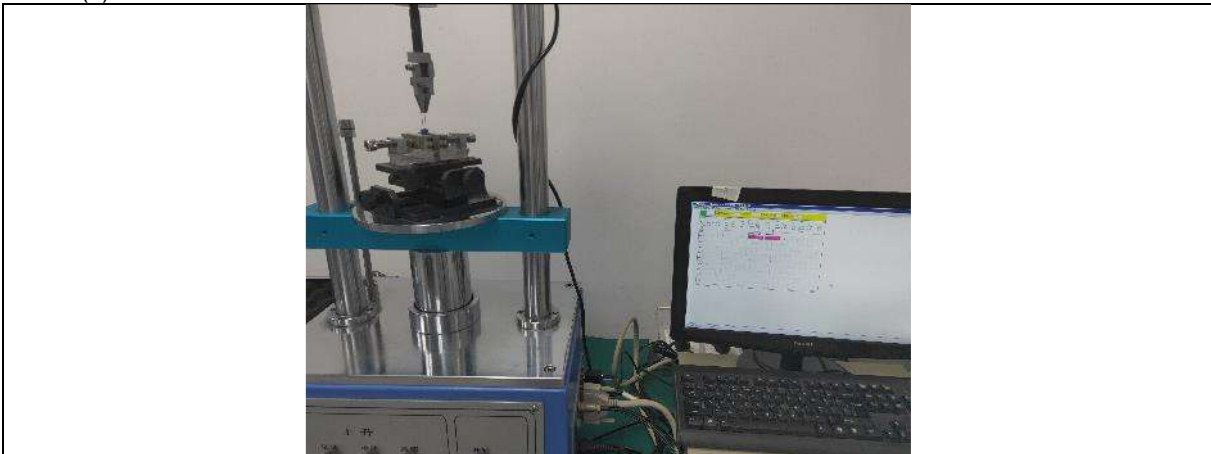


Fig 25. During Test

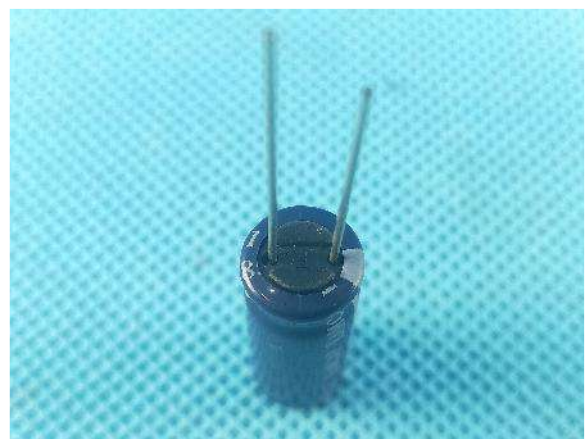


Fig 26. After test



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8. Test Item: Resistance to Solvents

Sample Description: Capacitance

Quantities of Specimens: 5 PCS

Test Standards: MIL-STD-202 Method 215 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Solvent solutions:

A: A mixture consisting of the following:

1. One part by volume of isopropyl alcohol, American Chemical Society (ACS) reagent grade, or isopropyl alcohol in accordance with TT-I-735, grade A or B, and
2. Three parts by volume of mineral spirits in accordance with MIL-PRF-680, type I, or three parts by volume of a mixture of 80 percent by volume of kerosene and 20 percent by volume ethylbenzene.

C: A terpene defluxer consisting of a minimum of 90 percent d-limonene and 10 percent surfactant

D: A mixture consisting of the following:

1. Forty-two parts by volume water, 1 megohm-cm minimum resistivity.
2. One part by volume of propylene glycol monomethyl ether (glycol ether PM, 1-methoxy-2-propanol).
3. One part by volume of monoethanolamine.

Test condition and Result:

| Specimen No. | Reagent | DUT temp | Exposure time | Result |
|--------------|---------|----------|---|-----------|
| 309 | A | 25±5°C | 1) Immersion 3 +.5, -0 minutes 2) Brush 10 strokes (wet bristle) 3) The procedure shall be repeated two more times, for a total of three immersions, followed by brushing | No damage |
| 310 | A | 25±5°C | | No damage |
| 311 | C | 25±5°C | | No damage |
| 312 | C | 25±5°C | | No damage |
| 313 | D | 63~70°C | | No damage |

Evaluation Method:

Visual inspection: no damage



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Test Photo(s):



Fig 27. During Test - Regent A

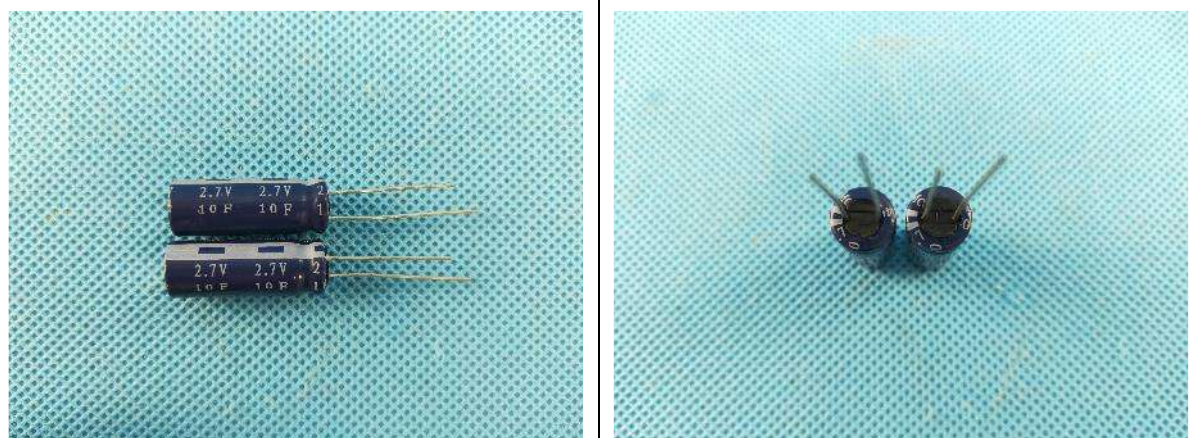


Fig 28. After test - Regent A



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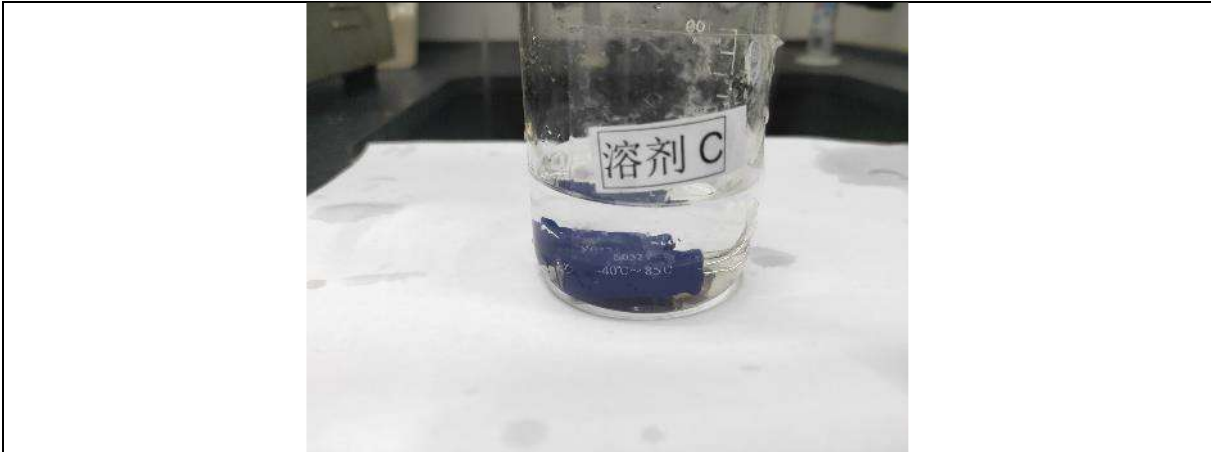


Fig 29. During Test - Regent C

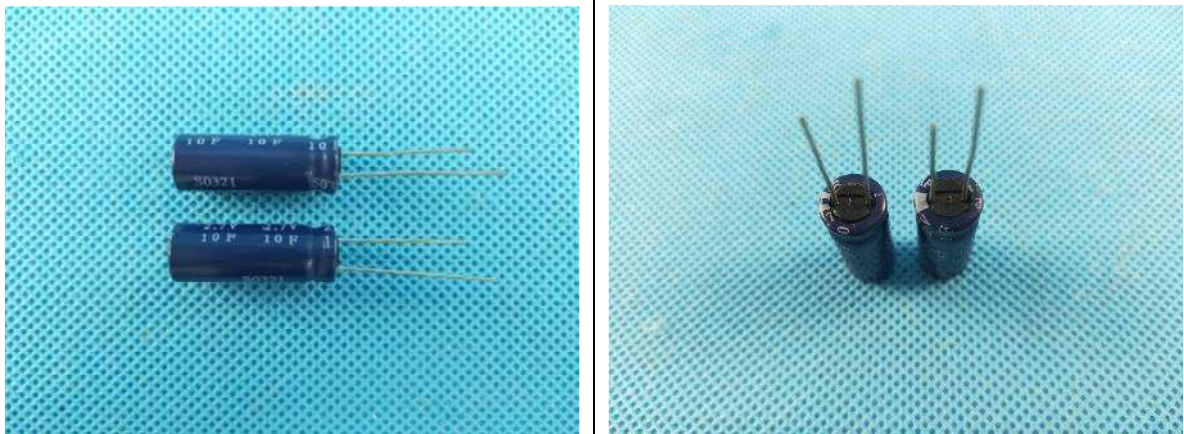


Fig 30. After test - Regent C



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Fig 31. During Test - - Regent D

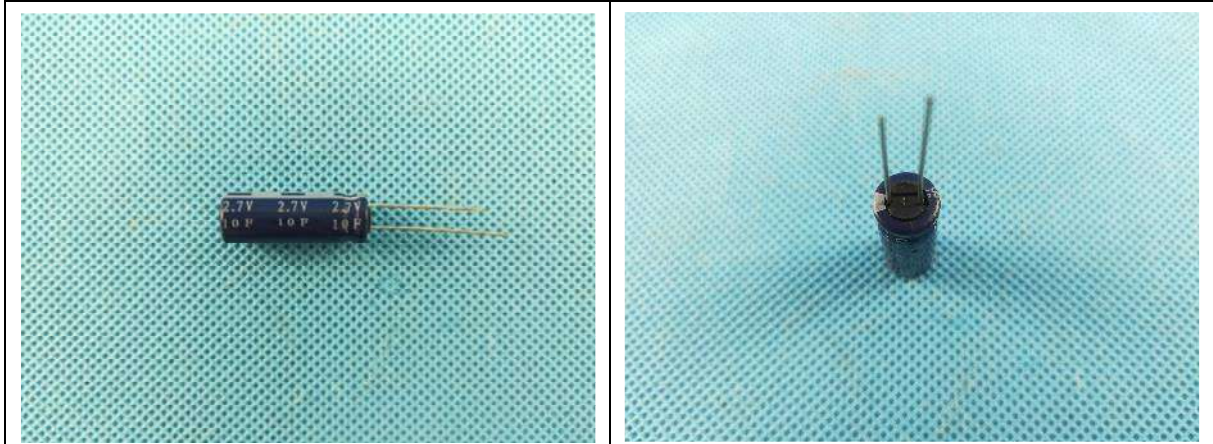


Fig 32. After test - Regent D



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9. Test Item: Vibration

Sample Description: Capacitance

Quantities of Specimens: 30 PCS

Test Standards: MIL-STD-202 Method 204 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Sample Status: Unpackaged, Non-operation

Frequency Range: (10~55) Hz Sweep

Acceleration: 30 m/s² (10 Hz~55 Hz)

Orientation: Z axis

Sweep Cycles: 10 cycles

Duration Time: 3 hours/axis, total 3 hours

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR $\leq 2^*$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 314 | normal | 10.700 | 10.675 | -0.23% | 24.0 | 24.7 | 1.03 | Pass |
| 315 | normal | 11.016 | 10.985 | -0.28% | 24.6 | 25.1 | 1.02 | Pass |
| 316 | normal | 10.977 | 10.956 | -0.19% | 23.7 | 24.4 | 1.03 | Pass |
| 317 | normal | 10.896 | 10.884 | -0.11% | 23.7 | 23.9 | 1.01 | Pass |
| 318 | normal | 10.816 | 10.778 | -0.35% | 23.4 | 23.9 | 1.02 | Pass |
| 319 | normal | 10.736 | 10.712 | -0.22% | 24.0 | 24.7 | 1.03 | Pass |
| 320 | normal | 11.010 | 10.985 | -0.23% | 23.4 | 24.3 | 1.04 | Pass |
| 321 | normal | 11.052 | 11.034 | -0.16% | 21.9 | 22.3 | 1.02 | Pass |
| 322 | normal | 10.579 | 10.552 | -0.26% | 23.4 | 23.6 | 1.01 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 323 | normal | 11.174 | 11.144 | -0.27% | 23.0 | 23.7 | 1.03 | Pass |
| 324 | normal | 10.811 | 10.775 | -0.33% | 22.1 | 22.5 | 1.02 | Pass |
| 325 | normal | 11.019 | 10.983 | -0.33% | 23.4 | 23.9 | 1.02 | Pass |
| 326 | normal | 11.096 | 11.071 | -0.23% | 21.8 | 22.7 | 1.04 | Pass |
| 327 | normal | 10.979 | 10.945 | -0.31% | 23.9 | 24.6 | 1.03 | Pass |
| 328 | normal | 10.617 | 10.585 | -0.30% | 23.1 | 23.6 | 1.02 | Pass |
| 329 | normal | 10.932 | 10.896 | -0.33% | 23.7 | 23.9 | 1.01 | Pass |
| 330 | normal | 10.974 | 10.955 | -0.17% | 24.7 | 25.2 | 1.02 | Pass |
| 331 | normal | 11.129 | 11.099 | -0.27% | 22.2 | 23.1 | 1.04 | Pass |
| 332 | normal | 10.934 | 10.905 | -0.27% | 23.8 | 24.5 | 1.03 | Pass |
| 333 | normal | 10.972 | 10.936 | -0.33% | 22.5 | 23.4 | 1.04 | Pass |
| 334 | normal | 10.855 | 10.842 | -0.12% | 22.3 | 23.0 | 1.03 | Pass |
| 335 | normal | 10.738 | 10.717 | -0.20% | 25.3 | 25.8 | 1.02 | Pass |
| 336 | normal | 11.092 | 11.063 | -0.26% | 21.4 | 21.6 | 1.01 | Pass |
| 337 | normal | 10.937 | 10.915 | -0.20% | 23.1 | 23.6 | 1.02 | Pass |
| 338 | normal | 11.015 | 10.995 | -0.18% | 22.5 | 23.2 | 1.03 | Pass |
| 339 | normal | 10.860 | 10.825 | -0.32% | 22.9 | 23.8 | 1.04 | Pass |
| 340 | normal | 10.930 | 10.903 | -0.25% | 23.4 | 23.9 | 1.02 | Pass |
| 341 | normal | 10.932 | 10.917 | -0.14% | 23.0 | 23.2 | 1.01 | Pass |
| 342 | normal | 10.772 | 10.755 | -0.16% | 22.9 | 23.6 | 1.03 | Pass |
| 343 | normal | 10.849 | 10.827 | -0.20% | 24.7 | 25.7 | 1.04 | Pass |

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Test Photo(s):



Fig 33. Test setup (Z axis)

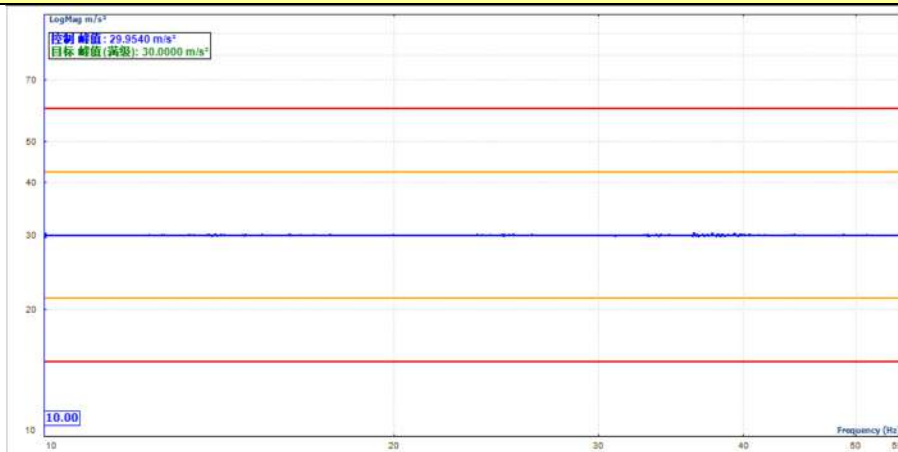


Fig 34. Test spectrum



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TEST REPORT

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10. Test Item: Resistance to Soldering Heat

Sample Description: Capacitance

Quantities of Specimens: 30 PCS

Test Standards: MIL-STD-202 Method 210 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Solder temperature: 260°C

Test time: 10 s

Solder type: SAC305

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR $\leq 2^*$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 389 | normal | 10.936 | 10.864 | -0.66% | 23.1 | 23.9 | 1.03 | Pass |
| 390 | normal | 10.736 | 10.673 | -0.59% | 22.6 | 23.2 | 1.03 | Pass |
| 391 | normal | 11.092 | 11.025 | -0.60% | 22.8 | 23.3 | 1.02 | Pass |
| 392 | normal | 10.693 | 10.638 | -0.51% | 24.0 | 25.0 | 1.04 | Pass |
| 393 | normal | 11.212 | 11.156 | -0.50% | 21.1 | 21.5 | 1.02 | Pass |
| 394 | normal | 11.214 | 11.145 | -0.62% | 22.2 | 23.1 | 1.04 | Pass |
| 395 | normal | 10.820 | 10.769 | -0.47% | 23.2 | 23.9 | 1.03 | Pass |
| 396 | normal | 10.819 | 10.765 | -0.50% | 22.3 | 23.2 | 1.04 | Pass |
| 397 | normal | 10.935 | 10.874 | -0.56% | 22.3 | 22.7 | 1.02 | Pass |
| 398 | normal | 10.976 | 10.908 | -0.62% | 22.1 | 23.0 | 1.04 | Pass |
| 399 | normal | 11.053 | 10.994 | -0.53% | 23.3 | 24.0 | 1.03 | Pass |
| 400 | normal | 11.087 | 11.048 | -0.35% | 22.7 | 23.2 | 1.02 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 401 | normal | 10.772 | 10.692 | -0.74% | 23.2 | 23.9 | 1.03 | Pass |
| 402 | normal | 10.657 | 10.619 | -0.36% | 23.5 | 24.4 | 1.04 | Pass |
| 403 | normal | 10.732 | 10.653 | -0.74% | 23.3 | 23.8 | 1.02 | Pass |
| 404 | normal | 11.132 | 11.071 | -0.55% | 23.1 | 23.3 | 1.01 | Pass |
| 405 | normal | 10.740 | 10.704 | -0.34% | 23.2 | 24.1 | 1.04 | Pass |
| 406 | normal | 10.937 | 10.884 | -0.48% | 22.2 | 22.9 | 1.03 | Pass |
| 407 | normal | 10.851 | 10.807 | -0.41% | 21.7 | 22.4 | 1.03 | Pass |
| 408 | normal | 11.212 | 11.128 | -0.75% | 22.9 | 23.4 | 1.02 | Pass |
| 409 | normal | 11.173 | 11.095 | -0.70% | 22.4 | 22.8 | 1.02 | Pass |
| 410 | normal | 10.937 | 10.856 | -0.74% | 23.3 | 24.0 | 1.03 | Pass |
| 421 | normal | 10.656 | 10.606 | -0.47% | 24.7 | 25.2 | 1.02 | Pass |
| 422 | normal | 11.011 | 10.958 | -0.48% | 22.4 | 23.3 | 1.04 | Pass |
| 423 | normal | 11.015 | 10.937 | -0.71% | 21.6 | 22.0 | 1.02 | Pass |
| 424 | normal | 10.892 | 10.834 | -0.53% | 22.1 | 22.3 | 1.01 | Pass |
| 425 | normal | 11.052 | 10.997 | -0.50% | 22.9 | 23.6 | 1.03 | Pass |
| 426 | normal | 10.736 | 10.654 | -0.76% | 22.3 | 22.7 | 1.02 | Pass |
| 427 | normal | 10.895 | 10.815 | -0.73% | 21.1 | 21.9 | 1.04 | Pass |
| 428 | normal | 10.976 | 10.924 | -0.47% | 21.5 | 21.9 | 1.02 | Pass |

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Test Photo(s):



Fig 35. After test

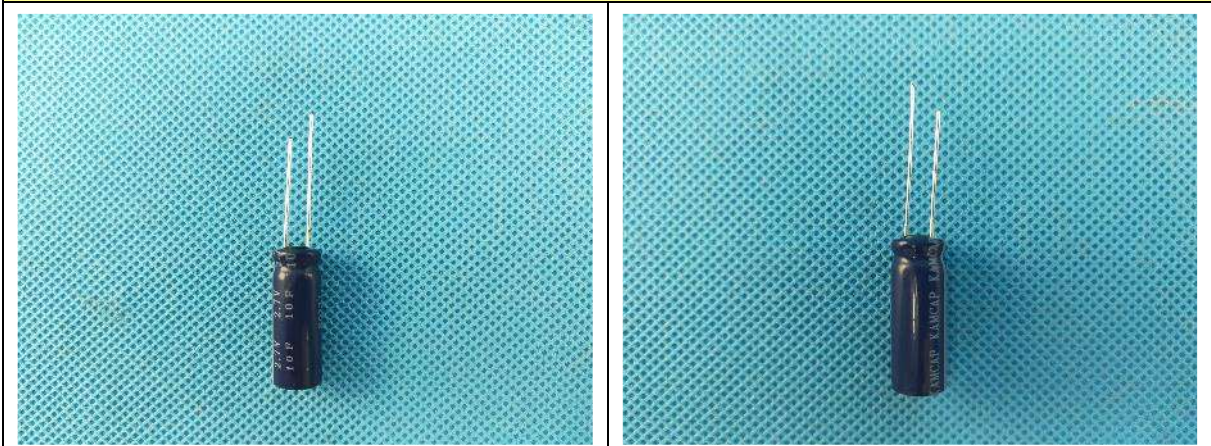


Fig 36. After test



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11. Test Item: ESD

Sample Description: Capacitance

Quantities of Specimens: 15 PCS

Test Standards: AEC-Q200-002 or ISO/DIS 10605 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Direct Contact Discharge: ±4 kV, 3 times

Air Discharge: ±8 kV, 3 times

Evaluation Method:

Visual inspection: no damage

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR $\leq 2^*$ initial ESR@25°C

Test Result(s):

| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|----------------------------|------------|
| 344 | normal | 10.812 | 10.811 | -0.01% | 23.7 | 23.8 | 10.812 | Pass |
| 345 | normal | 11.005 | 11.004 | -0.01% | 22.8 | 23.1 | 11.005 | Pass |
| 346 | normal | 10.858 | 10.858 | 0.00% | 23.3 | 23.5 | 10.858 | Pass |
| 347 | normal | 11.094 | 11.092 | -0.02% | 22.0 | 22.1 | 11.094 | Pass |
| 348 | normal | 10.979 | 10.977 | -0.02% | 24.0 | 24.2 | 10.979 | Pass |
| 349 | normal | 11.055 | 11.055 | 0.00% | 22.3 | 22.4 | 11.055 | Pass |
| 350 | normal | 10.976 | 10.974 | -0.02% | 23.9 | 23.9 | 10.976 | Pass |
| 351 | normal | 10.819 | 10.815 | -0.04% | 23.0 | 23.2 | 10.819 | Pass |
| 352 | normal | 10.978 | 10.976 | -0.02% | 21.7 | 21.9 | 10.978 | Pass |
| 353 | normal | 11.331 | 11.330 | -0.01% | 22.1 | 22.2 | 11.331 | Pass |
| 354 | normal | 11.013 | 11.013 | 0.00% | 22.8 | 22.9 | 11.013 | Pass |
| 355 | normal | 10.656 | 10.654 | -0.02% | 23.8 | 23.7 | 10.656 | Pass |
| 356 | normal | 10.852 | 10.850 | -0.02% | 22.3 | 22.5 | 10.852 | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 357 | normal | 11.014 | 11.007 | -0.06% | 22.0 | 22.1 | 11.014 | Pass |
| 358 | normal | 10.659 | 10.657 | -0.02% | 23.3 | 23.5 | 10.659 | Pass |

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Test Photo(s):



Fig 37. Direct Contact Discharge



Fig 38. Air Discharge



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12. Test Item: Solderability

Sample Description: Capacitance

Quantities of Specimens: 15 PCS

Test Standards: J-STD-002 and client's requirement

Laboratory Environmental Conditions: 25±10°C,50±25%RH

Test condition:

Solder temperature: 245°C
Test time: 5s
Flux type: flux 2#
Solder type: SAC305

Evaluation Method:

A minimum of 95% of each of the surfaces being tested shall be exhibit good wetting.

Electrical: Absolute value of $\Delta C/C \leq 10\%$

ESR $\leq 2^*$ initial ESR@25°C



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Test Result(s):

| Sample No. | Result | Conclusion |
|------------|-------------------------|------------|
| 429 | Wetting area \geq 95% | Pass |
| 430 | Wetting area \geq 95% | Pass |
| 431 | Wetting area \geq 95% | Pass |
| 432 | Wetting area \geq 95% | Pass |
| 433 | Wetting area \geq 95% | Pass |
| 434 | Wetting area \geq 95% | Pass |
| 435 | Wetting area \geq 95% | Pass |
| 436 | Wetting area \geq 95% | Pass |
| 437 | Wetting area \geq 95% | Pass |
| 438 | Wetting area \geq 95% | Pass |
| 439 | Wetting area \geq 95% | Pass |
| 440 | Wetting area \geq 95% | Pass |
| 441 | Wetting area \geq 95% | Pass |
| 442 | Wetting area \geq 95% | Pass |
| 443 | Wetting area \geq 95% | Pass |



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| Sample No. | Visual Inspection | C (F) (initial) | C (F) (after) | $\Delta C/C$ | ESR (m Ω) (initial) | ESR (m Ω) (after) | ESR (after)/ESR (initial) | Conclusion |
|------------|-------------------|-----------------|---------------|--------------|-----------------------------|---------------------------|---------------------------|------------|
| 429 | normal | 10.976 | 10.925 | -0.46% | 23.2 | 23.9 | 1.03 | Pass |
| 430 | normal | 10.856 | 10.811 | -0.41% | 22.8 | 23.3 | 1.02 | Pass |
| 431 | normal | 10.977 | 10.907 | -0.64% | 23.1 | 24.0 | 1.04 | Pass |
| 432 | normal | 10.898 | 10.834 | -0.59% | 23.9 | 24.6 | 1.03 | Pass |
| 433 | normal | 11.252 | 11.204 | -0.43% | 22.9 | 23.6 | 1.03 | Pass |
| 434 | normal | 11.212 | 11.138 | -0.66% | 23.4 | 23.9 | 1.02 | Pass |
| 435 | normal | 10.973 | 10.925 | -0.44% | 23.3 | 24.2 | 1.04 | Pass |
| 436 | normal | 10.971 | 10.904 | -0.61% | 21.9 | 22.6 | 1.03 | Pass |
| 437 | normal | 10.936 | 10.869 | -0.61% | 22.8 | 23.5 | 1.03 | Pass |
| 438 | normal | 10.772 | 10.702 | -0.65% | 23.6 | 24.5 | 1.04 | Pass |
| 439 | normal | 11.094 | 11.031 | -0.57% | 22.0 | 22.4 | 1.02 | Pass |
| 440 | normal | 10.937 | 10.864 | -0.67% | 22.9 | 23.6 | 1.03 | Pass |
| 441 | normal | 10.739 | 10.666 | -0.68% | 22.8 | 23.3 | 1.02 | Pass |
| 442 | normal | 11.252 | 11.207 | -0.40% | 23.3 | 24.2 | 1.04 | Pass |
| 443 | normal | 10.857 | 10.801 | -0.52% | 22.8 | 23.5 | 1.03 | Pass |

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Test Photo(s):

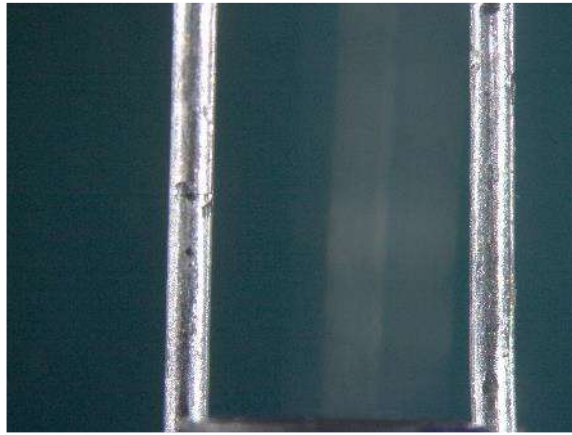


Fig 39. Before test - Typical picture

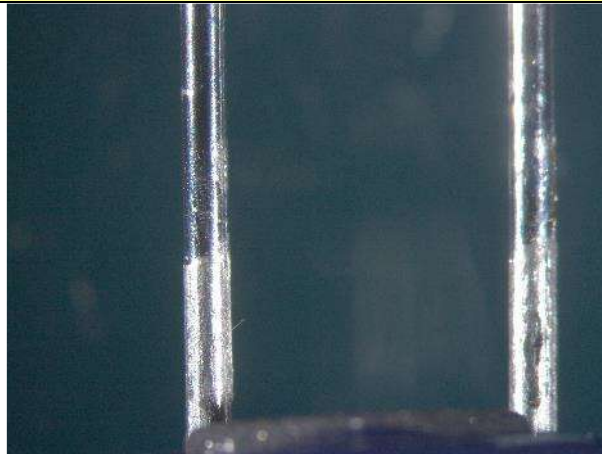


Fig 40. After test - Typical picture



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Equipment Information:

| Equipment | Model | Equipment No. | Calibration date | Next Calibration date |
|---|-------------------|---------------|------------------|-----------------------|
| Stereo Microscope | Stemi 2000-C | SUZRL-F004 | 2021-06-16 | 2022-06-15 |
| Thermal Shock Chamber | KTCE-216TBS | SUZRL-F017 | 2021-03-11 | 2022-03-10 |
| Temperature and humidity chamber | KTHA-010TBS | SUZRL-F009 | 2021-03-11 | 2022-03-10 |
| Temperature and humidity chamber | PHV 1404-D | SUZRL-F031 | 2021-05-17 | 2022-05-16 |
| H3TRB | BTR-E671 | SUZRL-F050 | 2021-06-16 | 2022-06-15 |
| Digital Caliper | 111-011 | SUZRL-P007 | 2021-03-17 | 2022-03-16 |
| Vibration Test System | SZREL-119 | DC-2200-26 | 2020-11-26 | 2021-11-25 |
| Charge Accelerometer | SZREL-149C | 4371 V | 2021-01-12 | 2022-01-11 |
| DC Power Supply | PS 8160-04 DT | SUZRL-E006 | 2021-03-11 | 2022-03-10 |
| DC Power Supply | PS 2084-05B | SUZRL-E003 | 2021-03-11 | 2022-03-10 |
| High precision battery performance testing system | CT-1008-5V6A-S1-F | T1801-149345 | 2020-12-04 | 2021-12-04 |
| AC Resistance meter | AT526 | 526001503070 | 2020-12-09 | 2021-12-08 |
| Lead-free solder pot | / | SUZRL-P009 | / | / |
| Pulling Force Tester | 1220SA/SAR/S D | SHAEL-019 | 2021-05-06 | 2022-05-05 |

*****End of Report*****



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