



编号: JK/JXJ190509018-A

# 南京时恒电子科技有限公司

## 规格承认书

### APPROVAL SHEET

客户名称:

CUSTOMER \_\_\_\_\_

产品名称:

PART NAME MF55 薄膜 NTC 热敏电阻器

产品规格:

PART NUMBER MF55 103F3950

日期:

DATE 2019 年 05 月 09 日

确 认

CONFIRM

客户

品保部: \_\_\_\_\_

制造部: \_\_\_\_\_

工程部: \_\_\_\_\_

供货商/制造商

规格书制作: 吴迎丽

业务员审核: \_\_\_\_\_

技术部审核: 程鹏

品质部审核: 李竹媛

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南京时恒电子科技有限公司

# MF55 薄膜 NTC 热敏电阻器电阻器

版本 2.0

型号: MF55 103F3950

本规格书提供了南京时恒电子科技有限公司生产的 MF72 系列 NTC 热敏电阻芯片的结构尺寸、产品性能、试验条件、使用要求等参数, 敬请贵司确认。  
对本规格书产生疑问时, 请速与我们取得联系 (025-52121868), 若无疑问请确认回传, 若无回传, 我司将视为默认。  
贵公司改变产品用途、使用方法时, 请与我们取得联系!

|                  |     |     |
|------------------|-----|-----|
| 客户名称:            |     |     |
| 客<br>户<br>确<br>认 | 确认: | 时间: |
|                  | 审核: | 时间: |

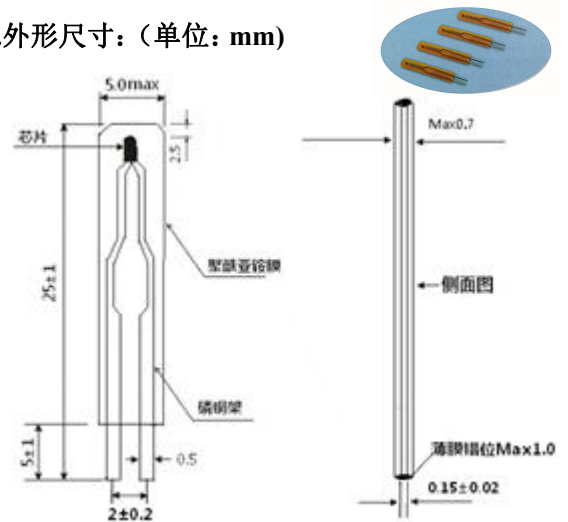
## 1. 电气性能

| 项目  | 符号               | 测试条件  | 单位                           | 性能要求                       |
|-----|------------------|---|------------------------------|----------------------------|
| 1.1 | $R_{25}$         | $T=25\pm 0.01^{\circ}\text{C}$ 测试功率 $\leq 0.1\text{mw}$   | $\text{K}\Omega$             | $10\text{K}\Omega \pm 1\%$ |
| 1.2 | $B_{25/50}$      | $B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$<br>$T_a = 25^{\circ}\text{C} \pm 0.01^{\circ}\text{C}$ $T_b = 50^{\circ}\text{C} \pm 0.01^{\circ}\text{C}$ | K                            | $3950 \pm 1\%$             |
| 1.3 | $\delta$         | 静止空气中   | $\text{mW}/^{\circ}\text{C}$ | $\geq 0.8$                 |
| 1.4 | $\tau$           | 静止空气中   | sec                          | $\leq 5$                   |
| 1.5 | /                | /   | $^{\circ}\text{C}$           | $-40 \sim 125$             |
| 1.6 | $P_{\text{max}}$ | /   | mW                           | 50                         |
| 1.7 | /                | /   | /                            | 见附表 1                      |
| 1.8 | /                | /   | /                            | 见附表 2                      |

## 2. 可靠性

| 项目           | 测试条件及方法   | 技术要求                             |            |
|--------------|---|----------------------------------|------------|
| 2.1 引线拉力试验   | 固定住热敏电阻的探头, 用 1 牛顿的力量逐渐地拉引线, 维持 $(10 \pm 1)$ s 秒左右        | 无外观损伤                            |            |
| 2.2 可焊性试验    | 焊接温度 $(245 \pm 10)^{\circ}\text{C}$ , 浸入时间: $(3 \pm 1)$ s | 着锡面积 $\geq 95\%$                 |            |
| 2.3 耐焊接热试验   | 焊接温度 $(260 \pm 5)^{\circ}\text{C}$ , 浸入时间: $(5 \pm 1)$ s  | $R_{25} \Delta R/R \leq \pm 2\%$ |            |
| 2.4 高温存储试验   | $125 \pm 5^{\circ}\text{C}$ , 1000 $\pm 24$ 小时            | $R_{25} \Delta R/R \leq \pm 3\%$ |            |
| 2.5 低温存储试验   | $-40 \pm 5^{\circ}\text{C}$ , 1000 $\pm 24$ 小时            | $R_{25} \Delta R/R \leq \pm 3\%$ |            |
| 2.6 稳态湿热试验   | $40 \pm 2^{\circ}\text{C}$ , 90-95%RH, 240 小时             | $R_{25} \Delta R/R \leq \pm 3\%$ |            |
| 2.7 温度快速变化试验 | 温度急变按下表条件循环五个周期   |                                  |            |
|              | 步骤  | 温度 ( $^{\circ}\text{C}$ )        | 周期 (分钟)    |
|              | 1   | $-40 \pm 5$                      | $30 \pm 3$ |
|              | 2   | 室温                               | $2 \pm 1$  |
|              | 3   | $125 \pm 5$                      | $30 \pm 3$ |
| 4            | 室温  | $2 \pm 1$                        |            |
|              |   | $R_{25} \Delta R/R \leq \pm 3\%$ |            |

## 4. 外形尺寸: (单位: mm)



## 5. 产品打印标志说明

103 / 3950

① ②

① 103:  $25^{\circ}\text{C}$  的零功率电阻值  $10\text{K}\Omega$

② 3950:  $B_{25/50}$  值  $3950\text{K}$

## 3. 使用注意事项

- 本产品的用途: 温度测量与控制;
- 避免过大的电流引起元件自身发热而产生测量误差;
- 烙铁焊接时, 焊接处距薄膜距离至少 2mm, 焊接温度应低于  $360^{\circ}\text{C}$ , 焊接时间  $< 3\text{ses}$ ;
- 储存温度:  $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ; 储存湿度:  $\leq 75\% \text{RH}$ ;
- 避免存放在具有腐蚀性气体及光照的环境下;
- 包装打开后需重新密封保存, 贮存期 1 年, 超过贮存期, 可按本标准规定的项目重新检验, 如符合要求仍可使用;
- 如在加工过程中需使用热缩管, 热缩管热缩时不可使用电吹风进行吹制, 建议热缩工艺, 将套好热缩管后的产品放入恒温烘箱中, 按  $110^{\circ}\text{C} / 10-12\text{min}$  进行热缩;

## 6. 认证

6.1 质量管理体系认证 ISO9001:2015

IATF16949:2016

6.2 环境管理体系认证 ISO14001:2015

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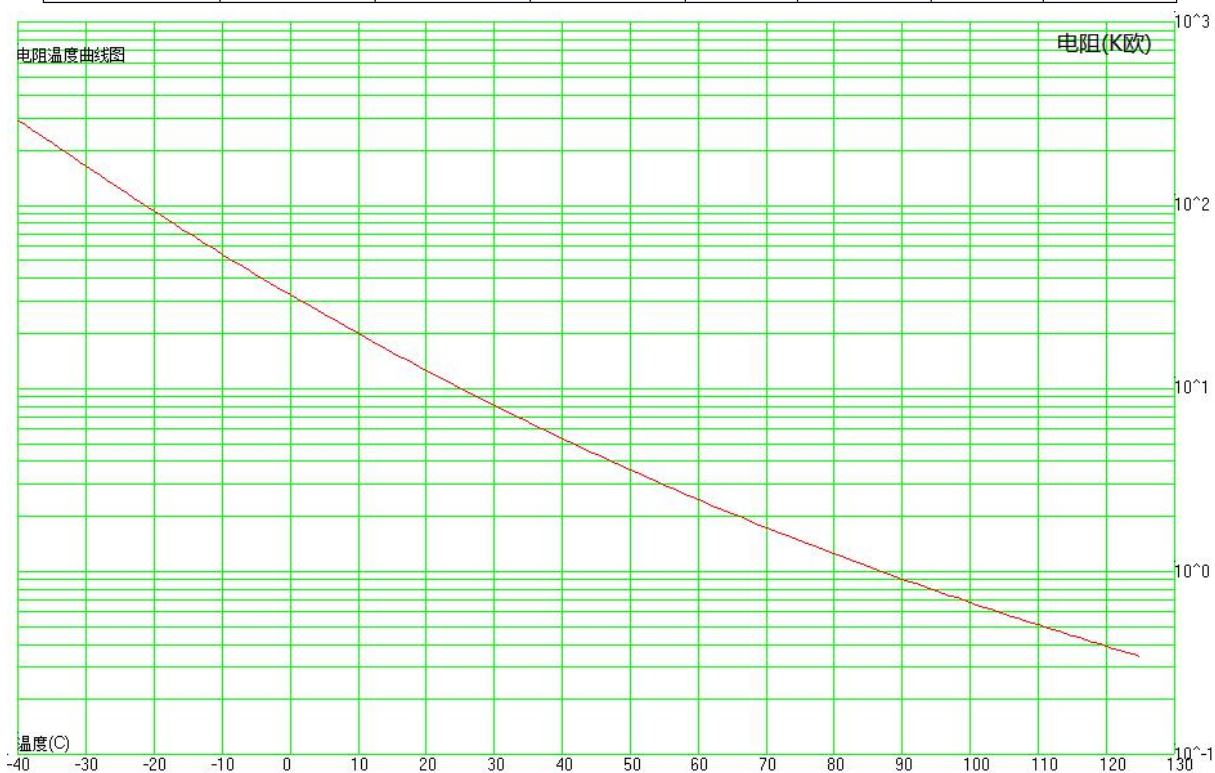
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| R25=10K $\Omega$ 精度: $\pm 1\%$ |                 |         |         | B25/50=3950K 精度: $\pm 1\%$ (F4-17) |             |                            |             |
|--------------------------------|-----------------|---------|---------|------------------------------------|-------------|----------------------------|-------------|
| 温度( $^{\circ}\text{C}$ )       | 电阻(K $\Omega$ ) |         |         | 电阻精度(%)                            |             | 温度精度( $^{\circ}\text{C}$ ) |             |
|                                | 最小值             | 中心值     | 最大值     | $\Delta R$                         | $-\Delta R$ | $\Delta T$                 | $-\Delta T$ |
| -40                            | 276.930         | 289.300 | 302.192 | 4.456                              | -4.275      | 0.673                      | -0.645      |
| -39                            | 262.204         | 273.765 | 285.807 | 4.398                              | -4.222      | 0.668                      | -0.641      |
| -38                            | 248.108         | 258.903 | 270.140 | 4.340                              | -4.169      | 0.662                      | -0.636      |
| -37                            | 234.652         | 244.723 | 255.202 | 4.281                              | -4.115      | 0.657                      | -0.632      |
| -36                            | 221.837         | 231.227 | 240.991 | 4.222                              | -4.061      | 0.652                      | -0.627      |
| -35                            | 209.658         | 218.408 | 227.501 | 4.163                              | -4.006      | 0.647                      | -0.622      |
| -34                            | 198.103         | 206.253 | 214.717 | 4.103                              | -3.951      | 0.641                      | -0.617      |
| -33                            | 187.157         | 194.745 | 202.620 | 4.043                              | -3.896      | 0.636                      | -0.613      |
| -32                            | 176.800         | 183.862 | 191.187 | 3.983                              | -3.840      | 0.630                      | -0.608      |
| -31                            | 167.011         | 173.582 | 180.394 | 3.924                              | -3.785      | 0.625                      | -0.603      |
| -30                            | 157.767         | 163.880 | 170.213 | 3.864                              | -3.730      | 0.619                      | -0.598      |
| -29                            | 149.043         | 154.730 | 160.617 | 3.804                              | -3.674      | 0.614                      | -0.593      |
| -28                            | 140.816         | 146.105 | 151.577 | 3.745                              | -3.619      | 0.608                      | -0.588      |
| -27                            | 133.060         | 137.979 | 143.064 | 3.685                              | -3.564      | 0.602                      | -0.583      |
| -26                            | 125.752         | 130.325 | 135.052 | 3.626                              | -3.509      | 0.597                      | -0.577      |
| -25                            | 118.866         | 123.120 | 127.512 | 3.567                              | -3.454      | 0.591                      | -0.572      |
| -24                            | 112.381         | 116.336 | 120.418 | 3.509                              | -3.399      | 0.585                      | -0.567      |
| -23                            | 106.272         | 109.951 | 113.745 | 3.450                              | -3.345      | 0.579                      | -0.561      |
| -22                            | 100.520         | 103.940 | 107.467 | 3.392                              | -3.290      | 0.573                      | -0.556      |
| -21                            | 95.102          | 98.283  | 101.561 | 3.334                              | -3.236      | 0.567                      | -0.551      |
| -20                            | 90.000          | 92.958  | 96.005  | 3.277                              | -3.182      | 0.561                      | -0.545      |
| -19                            | 85.193          | 87.945  | 90.777  | 3.219                              | -3.129      | 0.555                      | -0.539      |
| -18                            | 80.666          | 83.226  | 85.858  | 3.163                              | -3.075      | 0.549                      | -0.534      |
| -17                            | 76.400          | 78.781  | 81.228  | 3.106                              | -3.022      | 0.543                      | -0.528      |
| -16                            | 72.380          | 74.595  | 76.871  | 3.050                              | -2.969      | 0.536                      | -0.522      |
| -15                            | 68.591          | 70.652  | 72.767  | 2.994                              | -2.916      | 0.530                      | -0.516      |
| -14                            | 65.019          | 66.936  | 68.903  | 2.938                              | -2.864      | 0.523                      | -0.510      |
| -13                            | 61.651          | 63.435  | 65.264  | 2.883                              | -2.812      | 0.517                      | -0.504      |
| -12                            | 58.473          | 60.133  | 61.834  | 2.828                              | -2.760      | 0.510                      | -0.498      |
| -11                            | 55.476          | 57.020  | 58.602  | 2.773                              | -2.708      | 0.504                      | -0.492      |
| -10                            | 52.647          | 54.084  | 55.555  | 2.719                              | -2.657      | 0.497                      | -0.486      |
| -9                             | 49.976          | 51.313  | 52.681  | 2.665                              | -2.605      | 0.490                      | -0.479      |
| -8                             | 47.455          | 48.699  | 49.971  | 2.611                              | -2.554      | 0.484                      | -0.473      |
| -7                             | 45.073          | 46.230  | 47.413  | 2.558                              | -2.504      | 0.477                      | -0.467      |
| -6                             | 42.822          | 43.899  | 44.999  | 2.505                              | -2.453      | 0.470                      | -0.460      |
| -5                             | 40.695          | 41.698  | 42.720  | 2.452                              | -2.403      | 0.463                      | -0.454      |
| -4                             | 38.685          | 39.617  | 40.568  | 2.400                              | -2.353      | 0.456                      | -0.447      |
| -3                             | 36.783          | 37.651  | 38.535  | 2.347                              | -2.303      | 0.449                      | -0.440      |
| -2                             | 34.985          | 35.792  | 36.614  | 2.296                              | -2.254      | 0.442                      | -0.434      |
| -1                             | 33.283          | 34.034  | 34.798  | 2.244                              | -2.205      | 0.434                      | -0.427      |
| 0                              | 31.673          | 32.371  | 33.081  | 2.193                              | -2.156      | 0.427                      | -0.420      |
| 1                              | 30.148          | 30.797  | 31.457  | 2.142                              | -2.107      | 0.420                      | -0.413      |

|    |        |        |        |       |        |       |        |
|----|--------|--------|--------|-------|--------|-------|--------|
| 2  | 28.704 | 29.307 | 29.920 | 2.091 | -2.058 | 0.412 | -0.406 |
| 3  | 27.336 | 27.897 | 28.466 | 2.041 | -2.010 | 0.405 | -0.399 |
| 4  | 26.040 | 26.561 | 27.090 | 1.991 | -1.962 | 0.397 | -0.392 |
| 5  | 24.812 | 25.296 | 25.787 | 1.941 | -1.914 | 0.390 | -0.384 |
| 6  | 23.647 | 24.097 | 24.553 | 1.892 | -1.866 | 0.382 | -0.377 |
| 7  | 22.543 | 22.961 | 23.384 | 1.843 | -1.819 | 0.375 | -0.370 |
| 8  | 21.495 | 21.883 | 22.276 | 1.794 | -1.772 | 0.367 | -0.362 |
| 9  | 20.502 | 20.862 | 21.226 | 1.745 | -1.725 | 0.359 | -0.355 |
| 10 | 19.559 | 19.893 | 20.230 | 1.697 | -1.678 | 0.351 | -0.347 |
| 11 | 18.663 | 18.973 | 19.286 | 1.648 | -1.632 | 0.343 | -0.339 |
| 12 | 17.813 | 18.100 | 18.390 | 1.601 | -1.585 | 0.335 | -0.332 |
| 13 | 17.006 | 17.272 | 17.541 | 1.553 | -1.539 | 0.327 | -0.324 |
| 14 | 16.239 | 16.486 | 16.734 | 1.506 | -1.493 | 0.319 | -0.316 |
| 15 | 15.511 | 15.739 | 15.968 | 1.459 | -1.448 | 0.310 | -0.308 |
| 16 | 14.818 | 15.029 | 15.242 | 1.412 | -1.402 | 0.302 | -0.300 |
| 17 | 14.160 | 14.355 | 14.551 | 1.365 | -1.357 | 0.294 | -0.292 |
| 18 | 13.534 | 13.714 | 13.895 | 1.319 | -1.312 | 0.285 | -0.283 |
| 19 | 12.939 | 13.105 | 13.272 | 1.273 | -1.267 | 0.276 | -0.275 |
| 20 | 12.373 | 12.526 | 12.680 | 1.227 | -1.222 | 0.267 | -0.266 |
| 21 | 11.834 | 11.976 | 12.117 | 1.182 | -1.178 | 0.258 | -0.257 |
| 22 | 11.322 | 11.452 | 11.582 | 1.137 | -1.134 | 0.249 | -0.248 |
| 23 | 10.834 | 10.953 | 11.073 | 1.092 | -1.090 | 0.238 | -0.237 |
| 24 | 10.369 | 10.479 | 10.589 | 1.047 | -1.046 | 0.222 | -0.222 |
| 25 | 9.900  | 10.000 | 10.100 | 1.000 | -1.000 | 0.214 | -0.214 |
| 26 | 9.498  | 9.598  | 9.698  | 1.041 | -1.040 | 0.254 | -0.254 |
| 27 | 9.089  | 9.188  | 9.288  | 1.085 | -1.083 | 0.258 | -0.257 |
| 28 | 8.699  | 8.799  | 8.898  | 1.129 | -1.126 | 0.267 | -0.266 |
| 29 | 8.329  | 8.427  | 8.526  | 1.172 | -1.169 | 0.277 | -0.277 |
| 30 | 7.975  | 8.073  | 8.171  | 1.216 | -1.211 | 0.289 | -0.287 |
| 31 | 7.639  | 7.736  | 7.833  | 1.259 | -1.253 | 0.300 | -0.299 |
| 32 | 7.318  | 7.414  | 7.511  | 1.302 | -1.295 | 0.312 | -0.310 |
| 33 | 7.013  | 7.108  | 7.204  | 1.345 | -1.337 | 0.323 | -0.321 |
| 34 | 6.722  | 6.816  | 6.910  | 1.387 | -1.378 | 0.335 | -0.333 |
| 35 | 6.444  | 6.537  | 6.630  | 1.430 | -1.419 | 0.347 | -0.345 |
| 36 | 6.179  | 6.271  | 6.363  | 1.472 | -1.460 | 0.359 | -0.357 |
| 37 | 5.926  | 6.017  | 6.108  | 1.514 | -1.501 | 0.372 | -0.369 |
| 38 | 5.685  | 5.775  | 5.864  | 1.556 | -1.542 | 0.384 | -0.381 |
| 39 | 5.455  | 5.543  | 5.632  | 1.597 | -1.582 | 0.396 | -0.393 |
| 40 | 5.236  | 5.322  | 5.410  | 1.638 | -1.622 | 0.409 | -0.405 |
| 41 | 5.026  | 5.111  | 5.197  | 1.679 | -1.662 | 0.422 | -0.417 |
| 42 | 4.826  | 4.910  | 4.994  | 1.720 | -1.701 | 0.434 | -0.429 |
| 43 | 4.635  | 4.717  | 4.801  | 1.761 | -1.740 | 0.447 | -0.442 |
| 44 | 4.453  | 4.534  | 4.615  | 1.802 | -1.779 | 0.460 | -0.454 |
| 45 | 4.278  | 4.358  | 4.438  | 1.842 | -1.818 | 0.473 | -0.467 |
| 46 | 4.112  | 4.190  | 4.268  | 1.882 | -1.857 | 0.486 | -0.480 |
| 47 | 3.953  | 4.029  | 4.106  | 1.922 | -1.895 | 0.499 | -0.492 |
| 48 | 3.800  | 3.875  | 3.951  | 1.961 | -1.933 | 0.512 | -0.505 |
| 49 | 3.655  | 3.728  | 3.803  | 2.001 | -1.971 | 0.526 | -0.518 |

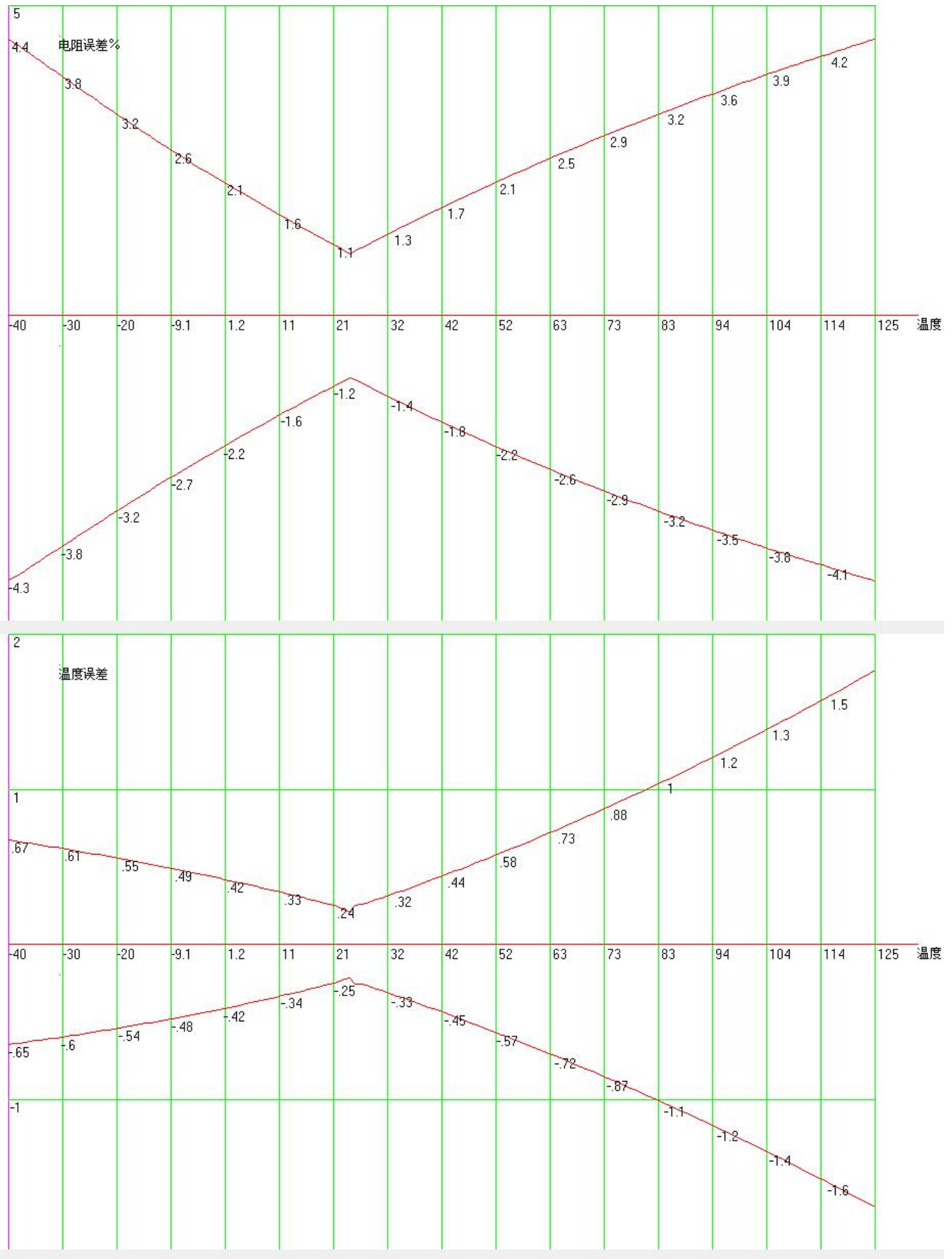
|    |       |       |       |       |        |       |        |
|----|-------|-------|-------|-------|--------|-------|--------|
| 50 | 3.515 | 3.588 | 3.661 | 2.040 | -2.009 | 0.539 | -0.531 |
| 51 | 3.382 | 3.453 | 3.525 | 2.079 | -2.047 | 0.552 | -0.544 |
| 52 | 3.255 | 3.324 | 3.394 | 2.118 | -2.084 | 0.566 | -0.557 |
| 53 | 3.133 | 3.201 | 3.270 | 2.157 | -2.121 | 0.580 | -0.570 |
| 54 | 3.016 | 3.083 | 3.150 | 2.195 | -2.158 | 0.593 | -0.583 |
| 55 | 2.904 | 2.969 | 3.036 | 2.233 | -2.194 | 0.607 | -0.596 |
| 56 | 2.797 | 2.861 | 2.926 | 2.271 | -2.230 | 0.621 | -0.610 |
| 57 | 2.695 | 2.757 | 2.821 | 2.309 | -2.267 | 0.635 | -0.623 |
| 58 | 2.597 | 2.658 | 2.720 | 2.347 | -2.303 | 0.649 | -0.637 |
| 59 | 2.502 | 2.562 | 2.623 | 2.384 | -2.338 | 0.663 | -0.650 |
| 60 | 2.412 | 2.471 | 2.531 | 2.421 | -2.374 | 0.677 | -0.664 |
| 61 | 2.326 | 2.383 | 2.442 | 2.458 | -2.409 | 0.691 | -0.677 |
| 62 | 2.243 | 2.299 | 2.357 | 2.495 | -2.444 | 0.706 | -0.691 |
| 63 | 2.164 | 2.219 | 2.275 | 2.532 | -2.479 | 0.720 | -0.705 |
| 64 | 2.087 | 2.141 | 2.196 | 2.568 | -2.513 | 0.735 | -0.719 |
| 65 | 2.014 | 2.067 | 2.121 | 2.604 | -2.548 | 0.749 | -0.733 |
| 66 | 1.944 | 1.996 | 2.048 | 2.640 | -2.582 | 0.764 | -0.747 |
| 67 | 1.877 | 1.927 | 1.979 | 2.676 | -2.616 | 0.779 | -0.761 |
| 68 | 1.812 | 1.861 | 1.912 | 2.712 | -2.650 | 0.793 | -0.775 |
| 69 | 1.750 | 1.798 | 1.848 | 2.747 | -2.683 | 0.808 | -0.789 |
| 70 | 1.690 | 1.738 | 1.786 | 2.782 | -2.717 | 0.823 | -0.804 |
| 71 | 1.633 | 1.679 | 1.727 | 2.817 | -2.750 | 0.838 | -0.818 |
| 72 | 1.578 | 1.623 | 1.670 | 2.852 | -2.783 | 0.853 | -0.833 |
| 73 | 1.525 | 1.570 | 1.615 | 2.887 | -2.816 | 0.869 | -0.847 |
| 74 | 1.475 | 1.518 | 1.562 | 2.921 | -2.848 | 0.884 | -0.862 |
| 75 | 1.426 | 1.468 | 1.511 | 2.956 | -2.881 | 0.899 | -0.876 |
| 76 | 1.379 | 1.420 | 1.463 | 2.990 | -2.913 | 0.915 | -0.891 |
| 77 | 1.334 | 1.374 | 1.416 | 3.024 | -2.945 | 0.930 | -0.906 |
| 78 | 1.290 | 1.330 | 1.371 | 3.057 | -2.976 | 0.946 | -0.921 |
| 79 | 1.249 | 1.287 | 1.327 | 3.091 | -3.008 | 0.962 | -0.936 |
| 80 | 1.208 | 1.246 | 1.285 | 3.124 | -3.039 | 0.977 | -0.951 |
| 81 | 1.170 | 1.207 | 1.245 | 3.158 | -3.071 | 0.993 | -0.966 |
| 82 | 1.132 | 1.169 | 1.206 | 3.191 | -3.102 | 1.009 | -0.981 |
| 83 | 1.097 | 1.132 | 1.169 | 3.223 | -3.132 | 1.025 | -0.996 |
| 84 | 1.062 | 1.097 | 1.133 | 3.256 | -3.163 | 1.041 | -1.011 |
| 85 | 1.030 | 1.065 | 1.100 | 3.287 | -3.192 | 1.057 | -1.027 |
| 86 | 0.997 | 1.030 | 1.064 | 3.321 | -3.224 | 1.073 | -1.042 |
| 87 | 0.966 | 0.999 | 1.032 | 3.353 | -3.254 | 1.090 | -1.058 |
| 88 | 0.936 | 0.968 | 1.001 | 3.385 | -3.284 | 1.106 | -1.073 |
| 89 | 0.908 | 0.939 | 0.971 | 3.417 | -3.314 | 1.123 | -1.089 |
| 90 | 0.880 | 0.910 | 0.942 | 3.449 | -3.343 | 1.139 | -1.104 |
| 91 | 0.853 | 0.883 | 0.914 | 3.480 | -3.373 | 1.156 | -1.120 |
| 92 | 0.828 | 0.857 | 0.887 | 3.511 | -3.402 | 1.173 | -1.136 |
| 93 | 0.803 | 0.831 | 0.861 | 3.542 | -3.431 | 1.189 | -1.152 |
| 94 | 0.779 | 0.807 | 0.836 | 3.573 | -3.460 | 1.206 | -1.168 |
| 95 | 0.756 | 0.783 | 0.811 | 3.604 | -3.489 | 1.223 | -1.184 |
| 96 | 0.734 | 0.760 | 0.788 | 3.635 | -3.517 | 1.240 | -1.200 |
| 97 | 0.712 | 0.738 | 0.765 | 3.665 | -3.545 | 1.257 | -1.216 |

|     |       |       |       |       |        |       |        |
|-----|-------|-------|-------|-------|--------|-------|--------|
| 98  | 0.691 | 0.717 | 0.743 | 3.696 | -3.574 | 1.274 | -1.232 |
| 99  | 0.671 | 0.696 | 0.722 | 3.726 | -3.602 | 1.292 | -1.249 |
| 100 | 0.652 | 0.677 | 0.702 | 3.756 | -3.630 | 1.309 | -1.265 |
| 101 | 0.633 | 0.657 | 0.682 | 3.786 | -3.657 | 1.326 | -1.281 |
| 102 | 0.615 | 0.639 | 0.663 | 3.816 | -3.685 | 1.344 | -1.298 |
| 103 | 0.598 | 0.621 | 0.645 | 3.845 | -3.712 | 1.361 | -1.314 |
| 104 | 0.581 | 0.603 | 0.627 | 3.875 | -3.740 | 1.379 | -1.331 |
| 105 | 0.564 | 0.587 | 0.610 | 3.904 | -3.767 | 1.397 | -1.348 |
| 106 | 0.549 | 0.570 | 0.593 | 3.933 | -3.794 | 1.415 | -1.365 |
| 107 | 0.533 | 0.555 | 0.577 | 3.962 | -3.821 | 1.433 | -1.381 |
| 108 | 0.519 | 0.539 | 0.561 | 3.991 | -3.847 | 1.450 | -1.398 |
| 109 | 0.504 | 0.525 | 0.546 | 4.020 | -3.874 | 1.469 | -1.415 |
| 110 | 0.491 | 0.511 | 0.531 | 4.048 | -3.900 | 1.487 | -1.432 |
| 111 | 0.477 | 0.497 | 0.517 | 4.077 | -3.927 | 1.505 | -1.449 |
| 112 | 0.464 | 0.483 | 0.503 | 4.105 | -3.953 | 1.523 | -1.467 |
| 113 | 0.452 | 0.471 | 0.490 | 4.133 | -3.979 | 1.541 | -1.484 |
| 114 | 0.440 | 0.458 | 0.477 | 4.161 | -4.004 | 1.560 | -1.501 |
| 115 | 0.428 | 0.446 | 0.465 | 4.189 | -4.030 | 1.578 | -1.518 |
| 116 | 0.417 | 0.434 | 0.453 | 4.217 | -4.056 | 1.597 | -1.536 |
| 117 | 0.406 | 0.423 | 0.441 | 4.244 | -4.081 | 1.616 | -1.553 |
| 118 | 0.395 | 0.412 | 0.429 | 4.272 | -4.106 | 1.634 | -1.571 |
| 119 | 0.385 | 0.401 | 0.418 | 4.299 | -4.131 | 1.653 | -1.589 |
| 120 | 0.375 | 0.391 | 0.408 | 4.326 | -4.156 | 1.672 | -1.606 |
| 121 | 0.365 | 0.381 | 0.397 | 4.353 | -4.181 | 1.691 | -1.624 |
| 122 | 0.355 | 0.371 | 0.387 | 4.380 | -4.206 | 1.710 | -1.642 |
| 123 | 0.346 | 0.362 | 0.378 | 4.407 | -4.231 | 1.729 | -1.660 |
| 124 | 0.337 | 0.352 | 0.368 | 4.434 | -4.255 | 1.748 | -1.678 |
| 125 | 0.329 | 0.344 | 0.359 | 4.459 | -4.279 | 1.768 | -1.696 |



附表 2

南京时恒阻值误差曲线图



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