



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

MF52 珠状测温型 NTC 热敏电阻器

产品规格:

PART NUMBER

MF52 A 103H3435 (A1)(UL:E240991)

日期:

DATE

2017 年 07 月 20 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: 鞠晓丽

技术部审核: \_\_\_\_\_

品质部审核: \_\_\_\_\_

生产部审核: \_\_\_\_\_

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南京时恒电子科技有限公司

# MF52 珠状测温型 NTC 热敏电阻器

型号: MF52A 103H3435 (A1)

本规格书提供了南京时恒电子科技有限公司生产的 MF52A 系列 NTC 热敏电阻的结构尺寸、产品性能、试验条件、使用要求的描述, 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), 若无疑义请确认回传, 若无回传, 我司将视为默认。  
贵公司改变使用用途, 作用方法时, 请与我们取得联系。

|          |     |     |
|----------|-----|-----|
| 客户名称:    |     |     |
| 客户<br>确认 | 确认: | 时间: |
|          | 审核: | 时间: |

## 1. 电气性能

| 项目  | 项目           | 符号                       | 测试条件  | 单位                           | 性能要求   |
|-----|--------------|--------------------------|---|------------------------------|--|
| 1.1 | 25°C 的零功率电阻值 | $R_{25^{\circ}\text{C}}$ | $T_a=25\pm 0.05^{\circ}\text{C}$ 测试功率 $\leq 0.1\text{mW}$   | $\text{K}\Omega$             | $10\text{K}\Omega \pm 3\%$                     |
| 1.2 | B 值          | $B_{25/85}$              | $B=[(T_a \times T_b)/(T_b - T_a)] \times \ln(R_a/R_b)$<br>$T_b=85^{\circ}\text{C} \pm 0.01^{\circ}\text{C}$ | K                            | $3435 \pm 1\%$                                 |
| 1.3 | 耗散系数         | $\delta$                 | 静止空气中   | $\text{mW}/^{\circ}\text{C}$ | $\geq 2$                                       |
| 1.4 | 时间常数         | $\tau$                   | 静止空气中   | sec                          | $\leq 7$                                       |
| 1.5 | 绝缘电阻         | /                        | 100V/DC 1min  | $\text{M}\Omega$             | $\geq 100$                                     |
| 1.6 | 工作温度范围       | /                        | /   | $^{\circ}\text{C}$           | $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ |
| 1.7 | 最大额定功率       | $P_{\text{max}}$         | /   | mW                           | 50   |
| 1.8 | 阻温特性         | /                        | /   | /                            | 见附表 1  |
| 1.9 | 阻值误差         | /                        | /   | /                            | 见附表 2  |

## 2. 可靠性

| 项目         | 测试条件及方法  | 技术要求                                       |
|------------|--|--|
| 2.1 引出端强度  | 固定电阻端, 拉力: $5 \pm 1\text{N}$ , 时间: $10 \pm 1$ 秒  | 无可见性损伤<br>$R_{25} \Delta R/R \leq \pm 2\%$ |
| 2.2 可焊性    | 温度 $245 \pm 5^{\circ}\text{C}$ 时间 2-3 秒  | 着锡面积 $\geq 95\%$                           |
| 2.3 耐焊接热   | 锡锅温度: $260 \pm 5^{\circ}\text{C}$ , 浸入深度距电阻体 6mm, 时间 $5 \pm 1$ 秒   | $R_{25} \Delta R/R \leq \pm 2\%$           |
| 2.4 稳态湿热   | 温度: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , 湿度: $93 \pm 2\%$ , 时间: 500 小时   | $R_{25} \Delta R/R \leq \pm 2\%$           |
| 2.5 温度快速变化 | $-55^{\circ}\text{C} 30\text{min} \rightarrow 25^{\circ}\text{C} 5\text{min} \rightarrow 125^{\circ}\text{C} 30\text{min} \rightarrow 25^{\circ}\text{C} 5\text{min}$ , 反复 5 次 | $R_{25} \Delta R/R \leq \pm 2\%$           |
| 2.6 高温储存   | 温度: $125^{\circ}\text{C} \pm 5^{\circ}\text{C}$<br>时间: 1000 小时   | $R_{25} \Delta R/R \leq \pm 2\%$           |
| 2.7 低温储存   | 温度: $-55^{\circ}\text{C}$ 时间: 1000 小时  | $R_{25} \Delta R/R \leq \pm 2\%$           |

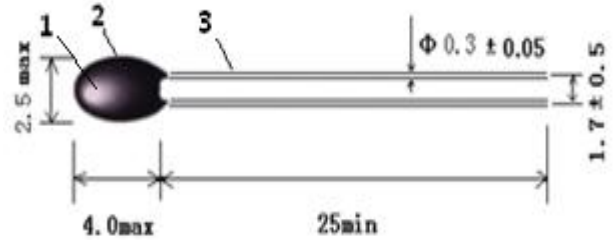
## 3. 使用注意事项

- 3.1 本产品的用途: 温度测量与控制;
- 3.2 避免流过热敏电阻芯片的电流引起元件自身发热而产生测量误差;
- 3.3 烙铁焊接时, 焊接处距涂装层距离至少 2mm, 焊接温度应低于  $300^{\circ}\text{C}$ , 焊接时间  $< 3\text{ses}$ ;
- 3.4 储存温度:  $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ; 储存湿度:  $\leq 75\% \text{RH}$ ;
- 3.5 避免存放在具有腐蚀性气体及光照的环境下;
- 3.6 包装打开后需重新密封保存。

## 4. 认证

- 4.1 质量管理体系认证 ISO9001:2008 (01115Q20270R5M)  
ISO/TS16949: 2009 (0192416)
- 4.2 环境管理体系认证 ISO14001:2004 (01113E20060R2M)
- 4.3 环保检测报告 ROHS
- 4.4 产品 CQC 认证 (CQC07001019009)
- 4.5 江苏省高新技术产品认证 (120115G0179N)
- 4.6 UL 1434 认证 (File # E240991)

## 5. 外形尺寸: (单位: mm)



| 序号 | 名称   | 材料规格     | 数量 | 备注 |
|----|------|----------|----|----|
| 1  | 元件   | NTC 热敏电阻 | 1  |    |
| 2  | 改性树脂 | 封装类树脂    | 1  | 黑色 |
| 3  | 导线   | 镀锡铜包钢线   | 2  | 银色 |

## 6. 产品型号说明

MF52 A 103 H 3435 A1

① ② ③ ④ ⑤ ⑥

- ① MF52: 珠状精密性 NTC 热敏电阻
- ② A1: 引线为镀锡铜包钢线
- ③ 103: 25°C 的零功率电阻值 10K $\Omega$
- ④ H: 阻值精度代码 F- $\pm 1\%$  G- $\pm 2\%$  H- $\pm 3\%$  J- $\pm 5\%$
- ⑤ 3435:  $B_{25/85}$  值 3435K
- ⑥ A1: 小头

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附表 1

## 南京时恒阻温特性表

R25=10K $\Omega$  精度:  $\pm 3\%$  B25/50=3380K B25/85=3435K 精度:  $\pm 1\%$  (P174-9A)

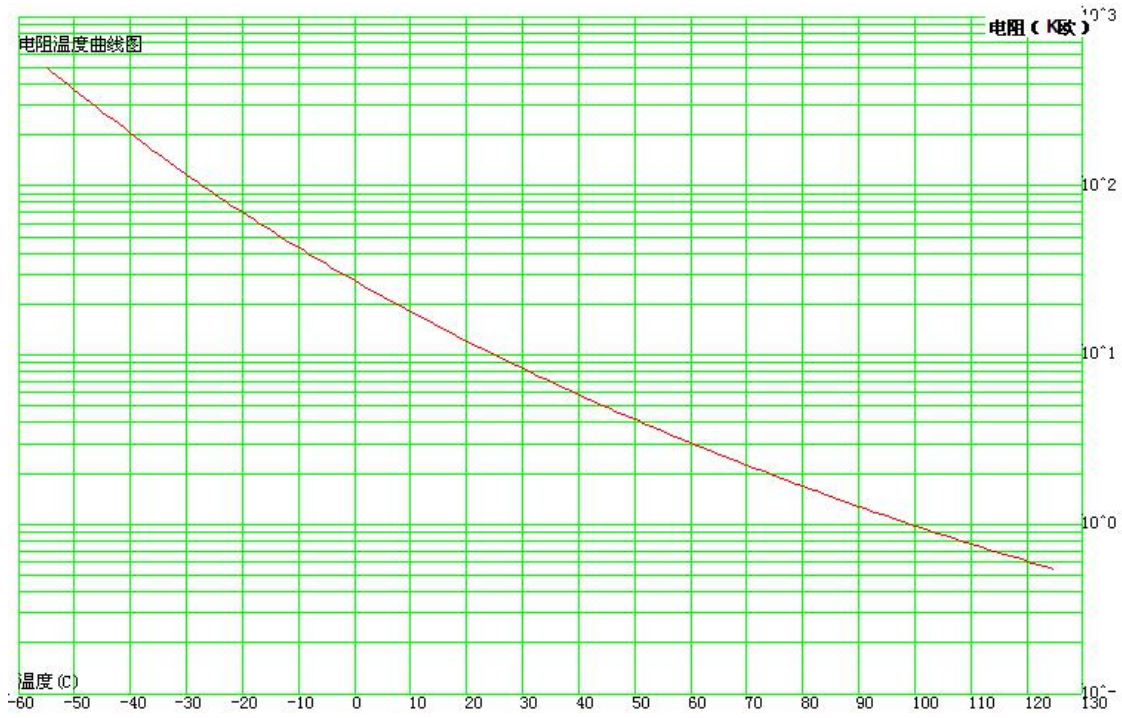
| 温度( $^{\circ}\text{C}$ ) | 电阻(K $\Omega$ ) |         |         | 电阻精度(%)    |             | 温度精度( $^{\circ}\text{C}$ ) |             |
|--------------------------|-----------------|---------|---------|------------|-------------|----------------------------|-------------|
|                          | 最小值             | 中心值     | 最大值     | $\Delta R$ | $-\Delta R$ | $\Delta T$                 | $-\Delta T$ |
| -55                      | 466.513         | 500.130 | 535.686 | 7.109      | -6.721      | 1.063                      | -1.005      |
| -54                      | 440.492         | 471.961 | 505.222 | 7.047      | -6.667      | 1.061                      | -1.004      |
| -53                      | 415.532         | 444.955 | 476.032 | 6.984      | -6.612      | 1.059                      | -1.003      |
| -52                      | 391.706         | 419.191 | 448.202 | 6.920      | -6.556      | 1.058                      | -1.002      |
| -51                      | 369.054         | 394.713 | 421.776 | 6.856      | -6.500      | 1.056                      | -1.001      |
| -50                      | 347.592         | 371.534 | 396.767 | 6.791      | -6.443      | 1.054                      | -1.000      |
| -49                      | 327.312         | 349.645 | 373.165 | 6.726      | -6.387      | 1.052                      | -0.999      |
| -48                      | 308.192         | 329.020 | 350.939 | 6.661      | -6.330      | 1.051                      | -0.998      |
| -47                      | 290.198         | 309.621 | 330.047 | 6.597      | -6.273      | 1.049                      | -0.998      |
| -46                      | 273.287         | 291.402 | 310.438 | 6.532      | -6.216      | 1.047                      | -0.997      |
| -45                      | 257.413         | 274.309 | 292.052 | 6.468      | -6.159      | 1.046                      | -0.996      |
| -44                      | 242.523         | 258.287 | 274.828 | 6.404      | -6.103      | 1.044                      | -0.995      |
| -43                      | 228.567         | 243.278 | 258.703 | 6.340      | -6.046      | 1.042                      | -0.994      |
| -42                      | 215.490         | 229.223 | 243.612 | 6.277      | -5.991      | 1.041                      | -0.993      |
| -41                      | 203.241         | 216.066 | 229.493 | 6.214      | -5.935      | 1.039                      | -0.992      |
| -40                      | 191.768         | 203.750 | 216.284 | 6.152      | -5.880      | 1.037                      | -0.991      |
| -39                      | 181.023         | 192.220 | 203.927 | 6.090      | -5.825      | 1.035                      | -0.990      |
| -38                      | 170.957         | 181.427 | 192.365 | 6.028      | -5.770      | 1.033                      | -0.989      |
| -37                      | 161.526         | 171.320 | 181.545 | 5.968      | -5.716      | 1.031                      | -0.988      |
| -36                      | 152.687         | 161.854 | 171.416 | 5.907      | -5.663      | 1.029                      | -0.986      |
| -35                      | 144.401         | 152.984 | 161.931 | 5.848      | -5.610      | 1.027                      | -0.985      |
| -34                      | 136.630         | 144.670 | 153.045 | 5.789      | -5.557      | 1.025                      | -0.984      |
| -33                      | 129.339         | 136.874 | 144.717 | 5.730      | -5.505      | 1.023                      | -0.982      |
| -32                      | 122.494         | 129.559 | 136.909 | 5.672      | -5.453      | 1.020                      | -0.981      |
| -31                      | 116.067         | 122.694 | 129.583 | 5.614      | -5.401      | 1.018                      | -0.979      |
| -30                      | 110.027         | 116.247 | 122.708 | 5.557      | -5.350      | 1.016                      | -0.978      |
| -29                      | 104.349         | 110.189 | 116.251 | 5.501      | -5.299      | 1.013                      | -0.976      |
| -28                      | 99.008          | 104.494 | 110.184 | 5.445      | -5.249      | 1.011                      | -0.974      |
| -27                      | 93.983          | 99.137  | 104.481 | 5.390      | -5.199      | 1.008                      | -0.973      |
| -26                      | 89.250          | 94.096  | 99.116  | 5.335      | -5.150      | 1.006                      | -0.971      |
| -25                      | 84.792          | 89.350  | 94.068  | 5.280      | -5.101      | 1.003                      | -0.969      |
| -24                      | 80.589          | 84.877  | 89.314  | 5.226      | -5.052      | 1.000                      | -0.967      |
| -23                      | 76.626          | 80.662  | 84.835  | 5.172      | -5.004      | 0.997                      | -0.965      |
| -22                      | 72.886          | 76.687  | 80.613  | 5.119      | -4.956      | 0.995                      | -0.963      |
| -21                      | 69.355          | 72.935  | 76.631  | 5.067      | -4.908      | 0.992                      | -0.960      |
| -20                      | 66.021          | 69.394  | 72.874  | 5.014      | -4.861      | 0.989                      | -0.958      |
| -19                      | 62.869          | 66.049  | 69.327  | 4.962      | -4.814      | 0.986                      | -0.956      |
| -18                      | 59.890          | 62.888  | 65.977  | 4.911      | -4.767      | 0.982                      | -0.954      |
| -17                      | 57.072          | 59.900  | 62.811  | 4.860      | -4.720      | 0.979                      | -0.951      |

|     |        |        |        |       |        |       |        |
|-----|--------|--------|--------|-------|--------|-------|--------|
| -16 | 54.405 | 57.073 | 59.818 | 4.809 | -4.674 | 0.976 | -0.949 |
| -15 | 51.880 | 54.398 | 56.987 | 4.759 | -4.629 | 0.973 | -0.946 |
| -14 | 49.489 | 51.866 | 54.309 | 4.709 | -4.583 | 0.969 | -0.943 |
| -13 | 47.223 | 49.468 | 51.773 | 4.659 | -4.538 | 0.966 | -0.941 |
| -12 | 45.075 | 47.196 | 49.372 | 4.610 | -4.493 | 0.962 | -0.938 |
| -11 | 43.038 | 45.042 | 47.097 | 4.561 | -4.448 | 0.959 | -0.935 |
| -10 | 41.106 | 43.000 | 44.940 | 4.513 | -4.404 | 0.955 | -0.932 |
| -9  | 39.272 | 41.062 | 42.896 | 4.465 | -4.360 | 0.952 | -0.929 |
| -8  | 37.531 | 39.224 | 40.957 | 4.417 | -4.316 | 0.948 | -0.926 |
| -7  | 35.877 | 37.479 | 39.117 | 4.369 | -4.273 | 0.944 | -0.923 |
| -6  | 34.306 | 35.822 | 37.370 | 4.322 | -4.229 | 0.941 | -0.920 |
| -5  | 32.813 | 34.247 | 35.712 | 4.275 | -4.186 | 0.937 | -0.917 |
| -4  | 31.394 | 32.751 | 34.137 | 4.229 | -4.143 | 0.933 | -0.914 |
| -3  | 30.045 | 31.329 | 32.640 | 4.182 | -4.101 | 0.929 | -0.911 |
| -2  | 28.761 | 29.977 | 31.218 | 4.137 | -4.059 | 0.925 | -0.907 |
| -1  | 27.539 | 28.691 | 29.865 | 4.091 | -4.017 | 0.921 | -0.904 |
| 0   | 26.418 | 27.513 | 28.626 | 4.047 | -3.976 | 0.916 | -0.899 |
| 1   | 25.269 | 26.303 | 27.356 | 4.000 | -3.933 | 0.912 | -0.897 |
| 2   | 24.214 | 25.195 | 26.192 | 3.956 | -3.892 | 0.908 | -0.894 |
| 3   | 23.210 | 24.139 | 25.084 | 3.911 | -3.851 | 0.904 | -0.890 |
| 4   | 22.252 | 23.134 | 24.029 | 3.867 | -3.810 | 0.900 | -0.886 |
| 5   | 21.340 | 22.176 | 23.024 | 3.823 | -3.769 | 0.895 | -0.883 |
| 6   | 20.470 | 21.263 | 22.066 | 3.779 | -3.729 | 0.891 | -0.879 |
| 7   | 19.640 | 20.392 | 21.154 | 3.736 | -3.688 | 0.886 | -0.875 |
| 8   | 18.849 | 19.562 | 20.285 | 3.693 | -3.648 | 0.882 | -0.871 |
| 9   | 18.093 | 18.771 | 19.456 | 3.650 | -3.608 | 0.877 | -0.867 |
| 10  | 17.372 | 18.016 | 18.666 | 3.608 | -3.569 | 0.873 | -0.863 |
| 11  | 16.684 | 17.295 | 17.912 | 3.565 | -3.529 | 0.868 | -0.859 |
| 12  | 16.027 | 16.607 | 17.192 | 3.523 | -3.490 | 0.863 | -0.855 |
| 13  | 15.400 | 15.950 | 16.506 | 3.482 | -3.451 | 0.858 | -0.851 |
| 14  | 14.800 | 15.323 | 15.850 | 3.440 | -3.413 | 0.854 | -0.847 |
| 15  | 14.227 | 14.724 | 15.224 | 3.399 | -3.374 | 0.849 | -0.842 |
| 16  | 13.679 | 14.151 | 14.627 | 3.358 | -3.336 | 0.844 | -0.838 |
| 17  | 13.156 | 13.604 | 14.056 | 3.317 | -3.298 | 0.839 | -0.834 |
| 18  | 12.655 | 13.081 | 13.510 | 3.277 | -3.260 | 0.833 | -0.829 |
| 19  | 12.176 | 12.581 | 12.989 | 3.236 | -3.222 | 0.828 | -0.824 |
| 20  | 11.718 | 12.103 | 12.490 | 3.196 | -3.185 | 0.823 | -0.820 |
| 21  | 11.279 | 11.646 | 12.014 | 3.157 | -3.147 | 0.817 | -0.815 |
| 22  | 10.860 | 11.208 | 11.558 | 3.117 | -3.110 | 0.811 | -0.809 |
| 23  | 10.458 | 10.789 | 11.122 | 3.078 | -3.073 | 0.804 | -0.803 |
| 24  | 10.073 | 10.389 | 10.704 | 3.039 | -3.037 | 0.793 | -0.793 |
| 25  | 9.700  | 10.000 | 10.300 | 3.000 | -3.000 | 0.788 | -0.788 |
| 26  | 9.345  | 9.637  | 9.930  | 3.038 | -3.035 | 0.825 | -0.825 |
| 27  | 9.000  | 9.285  | 9.571  | 3.076 | -3.071 | 0.835 | -0.834 |
| 28  | 8.670  | 8.948  | 9.226  | 3.114 | -3.107 | 0.849 | -0.847 |

|    |       |       |       |       |        |       |        |
|----|-------|-------|-------|-------|--------|-------|--------|
| 29 | 8.353 | 8.624 | 8.896 | 3.152 | -3.143 | 0.863 | -0.861 |
| 30 | 8.050 | 8.315 | 8.580 | 3.190 | -3.178 | 0.878 | -0.875 |
| 31 | 7.760 | 8.018 | 8.276 | 3.227 | -3.214 | 0.894 | -0.890 |
| 32 | 7.481 | 7.733 | 7.985 | 3.265 | -3.249 | 0.909 | -0.905 |
| 33 | 7.214 | 7.459 | 7.706 | 3.302 | -3.283 | 0.925 | -0.920 |
| 34 | 6.958 | 7.197 | 7.438 | 3.339 | -3.318 | 0.941 | -0.935 |
| 35 | 6.713 | 6.946 | 7.180 | 3.376 | -3.352 | 0.957 | -0.950 |
| 36 | 6.477 | 6.704 | 6.933 | 3.412 | -3.386 | 0.973 | -0.966 |
| 37 | 6.251 | 6.473 | 6.696 | 3.448 | -3.420 | 0.989 | -0.981 |
| 38 | 6.034 | 6.250 | 6.468 | 3.485 | -3.454 | 1.006 | -0.997 |
| 39 | 5.826 | 6.036 | 6.249 | 3.521 | -3.488 | 1.022 | -1.013 |
| 40 | 5.626 | 5.831 | 6.038 | 3.556 | -3.521 | 1.039 | -1.028 |
| 41 | 5.433 | 5.634 | 5.836 | 3.592 | -3.554 | 1.055 | -1.044 |
| 42 | 5.249 | 5.444 | 5.642 | 3.628 | -3.587 | 1.072 | -1.060 |
| 43 | 5.071 | 5.262 | 5.455 | 3.663 | -3.620 | 1.089 | -1.076 |
| 44 | 4.901 | 5.087 | 5.275 | 3.698 | -3.653 | 1.106 | -1.092 |
| 45 | 4.737 | 4.918 | 5.102 | 3.733 | -3.685 | 1.123 | -1.108 |
| 46 | 4.580 | 4.756 | 4.936 | 3.768 | -3.718 | 1.140 | -1.124 |
| 47 | 4.428 | 4.601 | 4.776 | 3.802 | -3.750 | 1.157 | -1.141 |
| 48 | 4.282 | 4.451 | 4.621 | 3.837 | -3.781 | 1.174 | -1.157 |
| 49 | 4.142 | 4.306 | 4.473 | 3.871 | -3.813 | 1.191 | -1.174 |
| 50 | 4.007 | 4.168 | 4.330 | 3.905 | -3.845 | 1.209 | -1.190 |
| 51 | 3.877 | 4.034 | 4.193 | 3.939 | -3.876 | 1.226 | -1.207 |
| 52 | 3.752 | 3.905 | 4.060 | 3.972 | -3.907 | 1.244 | -1.223 |
| 53 | 3.632 | 3.781 | 3.933 | 4.006 | -3.938 | 1.261 | -1.240 |
| 54 | 3.516 | 3.662 | 3.810 | 4.039 | -3.969 | 1.279 | -1.257 |
| 55 | 3.405 | 3.546 | 3.691 | 4.073 | -4.000 | 1.297 | -1.274 |
| 56 | 3.297 | 3.436 | 3.577 | 4.106 | -4.030 | 1.315 | -1.291 |
| 57 | 3.193 | 3.329 | 3.466 | 4.139 | -4.061 | 1.333 | -1.308 |
| 58 | 3.094 | 3.226 | 3.360 | 4.171 | -4.091 | 1.351 | -1.325 |
| 59 | 2.997 | 3.126 | 3.258 | 4.204 | -4.121 | 1.369 | -1.342 |
| 60 | 2.905 | 3.030 | 3.159 | 4.236 | -4.151 | 1.388 | -1.359 |
| 61 | 2.815 | 2.938 | 3.063 | 4.269 | -4.180 | 1.406 | -1.377 |
| 62 | 2.729 | 2.849 | 2.971 | 4.301 | -4.210 | 1.424 | -1.394 |
| 63 | 2.646 | 2.763 | 2.883 | 4.333 | -4.239 | 1.443 | -1.412 |
| 64 | 2.565 | 2.680 | 2.797 | 4.365 | -4.268 | 1.462 | -1.429 |
| 65 | 2.488 | 2.600 | 2.714 | 4.396 | -4.297 | 1.480 | -1.447 |
| 66 | 2.413 | 2.522 | 2.634 | 4.428 | -4.326 | 1.499 | -1.465 |
| 67 | 2.341 | 2.448 | 2.557 | 4.459 | -4.355 | 1.518 | -1.483 |
| 68 | 2.271 | 2.376 | 2.482 | 4.490 | -4.384 | 1.537 | -1.500 |
| 69 | 2.204 | 2.306 | 2.410 | 4.522 | -4.412 | 1.556 | -1.518 |
| 70 | 2.139 | 2.239 | 2.341 | 4.552 | -4.440 | 1.575 | -1.536 |
| 71 | 2.077 | 2.174 | 2.273 | 4.583 | -4.468 | 1.594 | -1.555 |
| 72 | 2.016 | 2.111 | 2.208 | 4.614 | -4.496 | 1.614 | -1.573 |
| 73 | 1.957 | 2.050 | 2.145 | 4.644 | -4.524 | 1.633 | -1.591 |

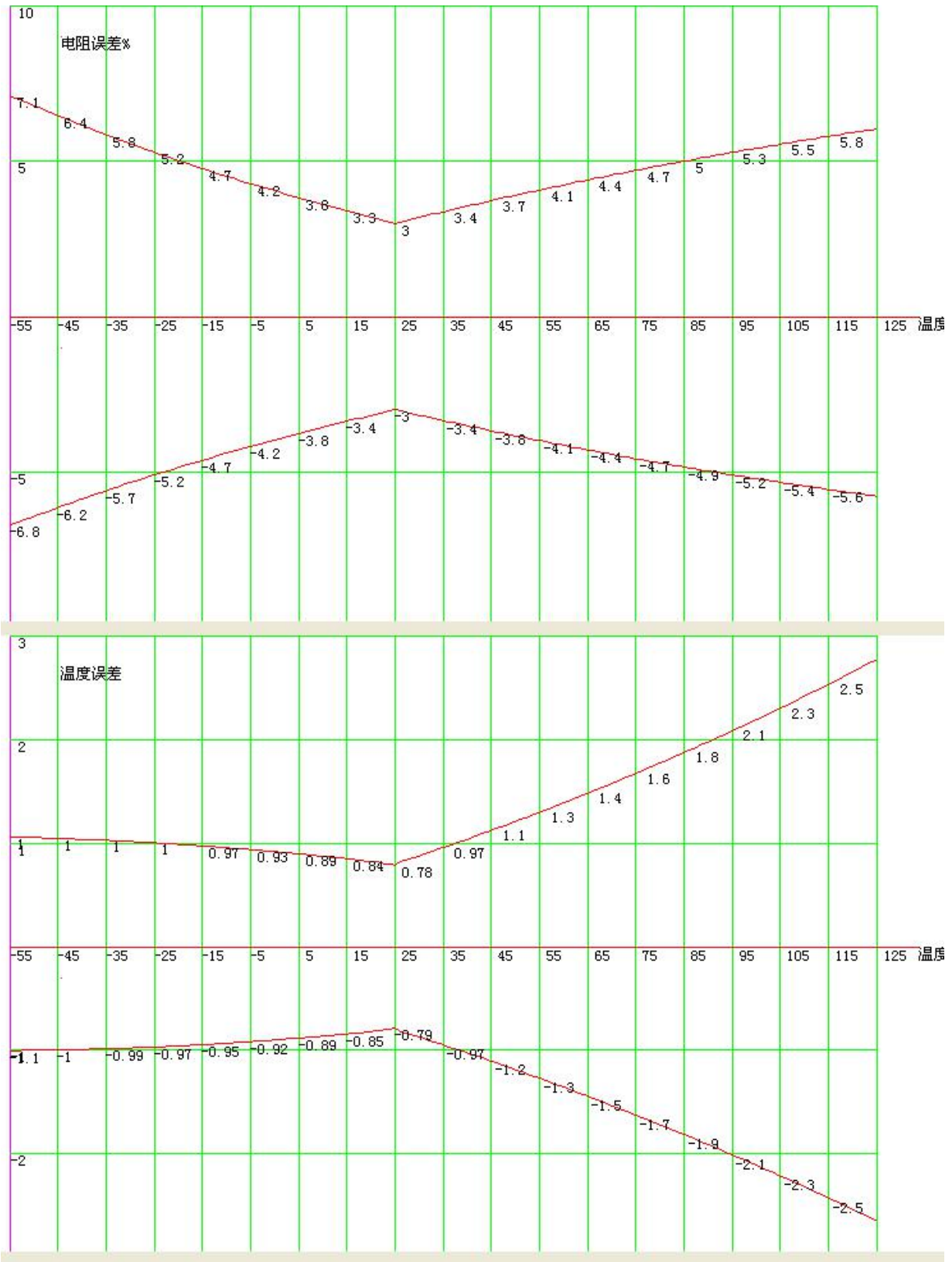
|     |       |       |       |       |        |       |        |
|-----|-------|-------|-------|-------|--------|-------|--------|
| 74  | 1.901 | 1.992 | 2.085 | 4.675 | -4.552 | 1.653 | -1.609 |
| 75  | 1.846 | 1.935 | 2.026 | 4.705 | -4.580 | 1.672 | -1.628 |
| 76  | 1.793 | 1.880 | 1.969 | 4.735 | -4.607 | 1.692 | -1.646 |
| 77  | 1.742 | 1.827 | 1.914 | 4.765 | -4.634 | 1.712 | -1.665 |
| 78  | 1.693 | 1.776 | 1.861 | 4.795 | -4.661 | 1.732 | -1.683 |
| 79  | 1.645 | 1.726 | 1.809 | 4.825 | -4.688 | 1.752 | -1.702 |
| 80  | 1.599 | 1.678 | 1.760 | 4.854 | -4.715 | 1.772 | -1.721 |
| 81  | 1.554 | 1.632 | 1.711 | 4.884 | -4.742 | 1.792 | -1.740 |
| 82  | 1.511 | 1.587 | 1.665 | 4.913 | -4.769 | 1.812 | -1.759 |
| 83  | 1.469 | 1.543 | 1.620 | 4.942 | -4.795 | 1.832 | -1.778 |
| 84  | 1.429 | 1.501 | 1.576 | 4.971 | -4.821 | 1.853 | -1.797 |
| 85  | 1.390 | 1.461 | 1.534 | 5.000 | -4.847 | 1.873 | -1.816 |
| 86  | 1.352 | 1.421 | 1.493 | 5.029 | -4.873 | 1.894 | -1.835 |
| 87  | 1.315 | 1.383 | 1.453 | 5.057 | -4.899 | 1.914 | -1.855 |
| 88  | 1.280 | 1.346 | 1.414 | 5.086 | -4.925 | 1.935 | -1.874 |
| 89  | 1.245 | 1.310 | 1.377 | 5.114 | -4.951 | 1.956 | -1.894 |
| 90  | 1.212 | 1.275 | 1.341 | 5.142 | -4.976 | 1.977 | -1.913 |
| 91  | 1.180 | 1.242 | 1.306 | 5.170 | -5.002 | 1.998 | -1.933 |
| 92  | 1.148 | 1.209 | 1.272 | 5.198 | -5.027 | 2.019 | -1.953 |
| 93  | 1.118 | 1.178 | 1.239 | 5.226 | -5.052 | 2.040 | -1.972 |
| 94  | 1.089 | 1.147 | 1.207 | 5.254 | -5.077 | 2.062 | -1.992 |
| 95  | 1.060 | 1.118 | 1.177 | 5.281 | -5.102 | 2.083 | -2.012 |
| 96  | 1.033 | 1.089 | 1.147 | 5.309 | -5.126 | 2.105 | -2.032 |
| 97  | 1.006 | 1.061 | 1.118 | 5.336 | -5.151 | 2.126 | -2.053 |
| 98  | 0.980 | 1.034 | 1.090 | 5.363 | -5.175 | 2.148 | -2.073 |
| 99  | 0.955 | 1.008 | 1.062 | 5.390 | -5.200 | 2.170 | -2.093 |
| 100 | 0.931 | 0.983 | 1.036 | 5.417 | -5.224 | 2.192 | -2.113 |
| 101 | 0.908 | 0.958 | 1.010 | 5.443 | -5.248 | 2.214 | -2.134 |
| 102 | 0.885 | 0.934 | 0.985 | 5.470 | -5.272 | 2.236 | -2.155 |
| 103 | 0.863 | 0.911 | 0.961 | 5.496 | -5.295 | 2.258 | -2.175 |
| 104 | 0.841 | 0.888 | 0.938 | 5.523 | -5.319 | 2.280 | -2.196 |
| 105 | 0.820 | 0.867 | 0.915 | 5.549 | -5.342 | 2.302 | -2.217 |
| 106 | 0.800 | 0.846 | 0.893 | 5.575 | -5.366 | 2.325 | -2.238 |
| 107 | 0.781 | 0.825 | 0.871 | 5.601 | -5.389 | 2.347 | -2.259 |
| 108 | 0.762 | 0.805 | 0.851 | 5.627 | -5.412 | 2.370 | -2.280 |
| 109 | 0.743 | 0.786 | 0.830 | 5.652 | -5.435 | 2.393 | -2.301 |
| 110 | 0.725 | 0.767 | 0.811 | 5.678 | -5.458 | 2.416 | -2.322 |
| 111 | 0.708 | 0.749 | 0.792 | 5.703 | -5.480 | 2.439 | -2.344 |
| 112 | 0.691 | 0.731 | 0.773 | 5.728 | -5.503 | 2.462 | -2.365 |
| 113 | 0.675 | 0.714 | 0.755 | 5.753 | -5.525 | 2.485 | -2.386 |
| 114 | 0.659 | 0.698 | 0.738 | 5.778 | -5.548 | 2.508 | -2.408 |
| 115 | 0.643 | 0.681 | 0.721 | 5.803 | -5.570 | 2.532 | -2.430 |
| 116 | 0.629 | 0.666 | 0.705 | 5.828 | -5.592 | 2.555 | -2.452 |
| 117 | 0.614 | 0.651 | 0.689 | 5.852 | -5.613 | 2.579 | -2.474 |
| 118 | 0.600 | 0.636 | 0.673 | 5.876 | -5.635 | 2.602 | -2.496 |

|     |       |       |       |       |        |       |        |
|-----|-------|-------|-------|-------|--------|-------|--------|
| 119 | 0.586 | 0.621 | 0.658 | 5.900 | -5.657 | 2.626 | -2.518 |
| 120 | 0.573 | 0.607 | 0.643 | 5.925 | -5.678 | 2.650 | -2.540 |
| 121 | 0.560 | 0.594 | 0.629 | 5.948 | -5.699 | 2.674 | -2.562 |
| 122 | 0.548 | 0.581 | 0.615 | 5.972 | -5.720 | 2.698 | -2.584 |
| 123 | 0.535 | 0.568 | 0.602 | 5.996 | -5.741 | 2.722 | -2.607 |
| 124 | 0.524 | 0.556 | 0.589 | 6.019 | -5.762 | 2.747 | -2.630 |
| 125 | 0.512 | 0.544 | 0.576 | 6.042 | -5.783 | 2.771 | -2.652 |



附表 2

南京时恒阻值误差曲线图





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