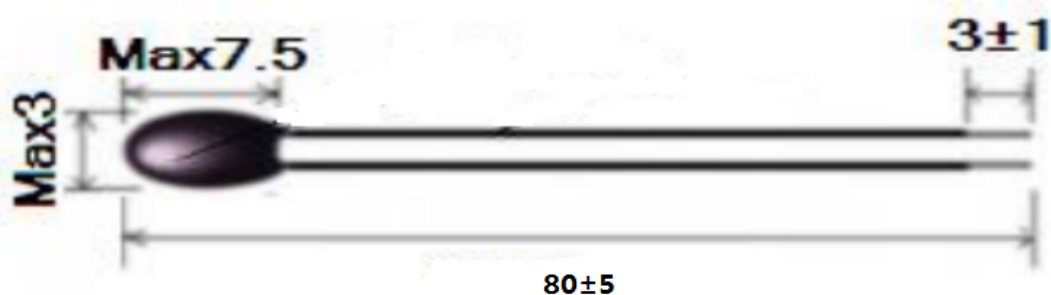


测温型热敏电阻主要技术参数

| | |
|------|--------------------|
| 规格型号 | MF52D 103F3950 |
| 产品标准 | Q/320115SHD03-2011 |

1、外形尺寸

(单位: mm)



2、材料

| | | |
|------|----|------|
| 包封材料 | 颜色 | 引线材质 |
| 环氧树脂 | 黑色 | PVC线 |

3、型号说明

| | | | | |
|--------------------|---------|-------------------------------|-----------|-------------|
| MF52 | D | 103 | F | 3950 |
| 珠状测温型 NTC 热敏电阻器 | 引线为PVC线 | 电阻值 | 阻值允差 | B 值 (25/50) |
| | | $10 \times 10^3 = 10K \Omega$ | $\pm 1\%$ | 3950K |

4、电气性能

| | 项目 | 符号 | 测试条件 | 单位 | 性能要求 |
|-----|------------|-------------|--|----------------------------|----------------|
| 4.1 | 25℃的零功率电阻值 | R_{25} | $T_a = 25 \pm 0.05^\circ\text{C}$ 测试功率 $\leq 0.1\text{mW}$ 流动液体中测试 | $K \Omega$ | $10 \pm 1\%$ |
| 4.2 | B 值 | $B_{25/50}$ | $B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a/R_b)$ $T_b = 50^\circ\text{C} \pm 0.1^\circ\text{C}$ | K | $3950 \pm 1\%$ |
| 4.3 | 耗散系数 | δ | 静止空气中 | $\text{mW}/^\circ\text{C}$ | ≥ 2 |
| 4.4 | 时间常数 | τ | 静止空气中 | sec | ≤ 7 |
| 4.5 | 绝缘电阻 | / | 100V/DC 1min | $M \Omega$ | ≥ 100 |
| 4.6 | 工作温度范围 | / | / | $^\circ\text{C}$ | -55 ~ 125 |
| 4.7 | 阻温特性 | / | / | / | 见附表 1 |
| 4.8 | 阻值误差 | / | / | / | 见附表 2 |

5、可靠性能试验

| | 项目 | 测试条件及方法 | 技术要求 |
|------|--------------------|---|--|
| 5.1 | 可焊性 | 将引线浸入 $245 \pm 5^\circ\text{C}$ 的锡液中, 锡面距本体下端 6mm 处, 时间 2~3 秒 | 焊料在引线浸入部分表面涂布均匀、光滑, 面积在 95% 以上 |
| 5.2 | 耐焊接热 | 将引线浸入 $265 \pm 5^\circ\text{C}$ 的锡液中, 液面距电阻体 6mm, 时间 5 ± 1 秒 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.3 | 引出端强度 | 拉力: 5N, 时间: 10 秒 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.4 | 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, 恢复 4 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.5 | 高温 | 温度: 125°C , 时间: 16 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.6 | 寒冷 | 温度: -55°C , 时间: 2 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.7 | 低气压 | 气压: $40 \pm 0.1\text{kPa}$, 时间: 4 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.8 | 稳态温热 | 温度: 40°C , 湿度: 93%, 时间: 500 ± 12 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$, 耐电压 $\geq 700\text{V/AC}$ 1min 绝缘电阻 $\geq 100\text{M}\Omega$ |
| 5.9 | 交变湿热 | 温度: $25 \sim 40^\circ\text{C}$, 湿度: 90%, 时间: 24 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$, 耐电压 $\geq 700\text{V/AC}$ 1min 绝缘电阻 $\geq 100\text{M}\Omega$ |
| 5.10 | 上限类别温度 下零功耗的耐久性 | 温度: $125^\circ\text{C} \pm 2^\circ\text{C}$, 时间: 1000 ± 24 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.11 | 振动 | 频率范围: $10 \sim 500\text{HZ}$, 振幅: 0.75mm 或 98m/S^2 , 时间 2 小时 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |
| 5.12 | 碰撞 | 加速度: 250m/S^2 , 脉冲持续时间: 6mS, 碰撞次数: 4000 次 | 无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$ |

6、焊接条件

焊接时, 焊接处距电阻体根部至少 6mm, 焊接温度应低于 350°C , 焊接时间应尽量短。

7、储存条件

7.1 储存温度: $-10^\circ\text{C} \sim 40^\circ\text{C}$;

7.2 储存湿度: $\leq 75\% \text{RH}$;

7.3 避免存放在具有腐蚀性气体及光照的环境下;

7.4 包装打开后需重新密封保存;

附表 1

阻温特性表

R25=10K Ω 精度:±1% B25/50=3950K B25/85=4021K 精度:±1%(P163-6)

| 温度(°C) | 电阻(K Ω) | | | 电阻精度(%) | | 温度精度(°C) | |
|--------|-----------------|---------|---------|------------|-------------|------------|-------------|
| | 最小值 | 中心值 | 最大值 | ΔR | $-\Delta R$ | ΔT | $-\Delta T$ |
| -55 | 554.685 | 583.542 | 613.839 | 5.191 | -4.945 | 0.747 | -0.711 |
| -54 | 527.487 | 554.647 | 583.148 | 5.138 | -4.896 | 0.743 | -0.708 |
| -53 | 501.420 | 526.968 | 553.762 | 5.084 | -4.848 | 0.738 | -0.704 |
| -52 | 476.462 | 500.480 | 525.656 | 5.030 | -4.799 | 0.734 | -0.700 |
| -51 | 452.590 | 475.159 | 498.802 | 4.975 | -4.749 | 0.729 | -0.696 |
| -50 | 429.779 | 450.974 | 473.167 | 4.921 | -4.699 | 0.725 | -0.692 |
| -49 | 408.000 | 427.897 | 448.718 | 4.866 | -4.649 | 0.720 | -0.688 |
| -48 | 387.224 | 405.892 | 425.419 | 4.810 | -4.599 | 0.716 | -0.684 |
| -47 | 367.418 | 384.927 | 403.231 | 4.755 | -4.548 | 0.711 | -0.680 |
| -46 | 348.551 | 364.967 | 382.118 | 4.699 | -4.497 | 0.706 | -0.676 |
| -45 | 330.589 | 345.975 | 362.039 | 4.643 | -4.446 | 0.701 | -0.672 |
| -44 | 313.501 | 327.915 | 342.957 | 4.587 | -4.395 | 0.697 | -0.667 |
| -43 | 297.251 | 310.751 | 324.831 | 4.531 | -4.344 | 0.692 | -0.663 |
| -42 | 281.808 | 294.448 | 307.623 | 4.474 | -4.292 | 0.687 | -0.659 |
| -41 | 267.138 | 278.969 | 291.294 | 4.418 | -4.240 | 0.682 | -0.654 |
| -40 | 253.208 | 264.279 | 275.806 | 4.361 | -4.189 | 0.677 | -0.650 |
| -39 | 239.986 | 250.344 | 261.122 | 4.305 | -4.137 | 0.671 | -0.645 |
| -38 | 227.442 | 237.130 | 247.205 | 4.248 | -4.085 | 0.666 | -0.641 |
| -37 | 215.545 | 224.603 | 234.019 | 4.192 | -4.033 | 0.661 | -0.636 |
| -36 | 204.264 | 212.733 | 221.531 | 4.135 | -3.981 | 0.656 | -0.631 |
| -35 | 193.571 | 201.487 | 209.706 | 4.079 | -3.928 | 0.650 | -0.626 |
| -34 | 183.437 | 190.836 | 198.512 | 4.022 | -3.876 | 0.645 | -0.622 |
| -33 | 173.837 | 180.750 | 187.919 | 3.966 | -3.824 | 0.640 | -0.617 |
| -32 | 164.743 | 171.201 | 177.895 | 3.909 | -3.772 | 0.634 | -0.612 |
| -31 | 156.131 | 162.163 | 168.412 | 3.853 | -3.720 | 0.629 | -0.607 |
| -30 | 147.976 | 153.610 | 159.443 | 3.797 | -3.667 | 0.623 | -0.602 |
| -29 | 140.255 | 145.516 | 150.960 | 3.741 | -3.615 | 0.617 | -0.597 |
| -28 | 132.946 | 137.858 | 142.938 | 3.684 | -3.563 | 0.612 | -0.591 |
| -27 | 126.027 | 130.614 | 135.354 | 3.628 | -3.511 | 0.606 | -0.586 |
| -26 | 119.480 | 123.761 | 128.184 | 3.573 | -3.459 | 0.600 | -0.581 |
| -25 | 113.283 | 117.280 | 121.405 | 3.517 | -3.407 | 0.594 | -0.575 |
| -24 | 107.419 | 111.149 | 114.997 | 3.461 | -3.355 | 0.588 | -0.570 |
| -23 | 101.870 | 105.351 | 108.939 | 3.406 | -3.303 | 0.582 | -0.565 |
| -22 | 96.619 | 99.867 | 103.214 | 3.351 | -3.252 | 0.576 | -0.559 |
| -21 | 91.650 | 94.681 | 97.801 | 3.296 | -3.200 | 0.570 | -0.553 |
| -20 | 86.949 | 89.776 | 92.686 | 3.241 | -3.149 | 0.564 | -0.548 |
| -19 | 82.500 | 85.137 | 87.850 | 3.186 | -3.097 | 0.558 | -0.542 |
| -18 | 78.290 | 80.750 | 83.279 | 3.131 | -3.046 | 0.551 | -0.536 |
| -17 | 74.306 | 76.600 | 78.958 | 3.077 | -2.995 | 0.545 | -0.530 |

阻温特性表

R25=10K Ω 精度:±1% B25/50=3950K B25/85=4021K 精度:±1%(P163-6)

| 温度(°C) | 电阻(K Ω) | | | 电阻精度(%) | | 温度精度(°C) | |
|--------|-----------------|--------|--------|------------|-------------|------------|-------------|
| | 最小值 | 中心值 | 最大值 | ΔR | $-\Delta R$ | ΔT | $-\Delta T$ |
| -16 | 70.536 | 72.676 | 74.873 | 3.023 | -2.944 | 0.539 | -0.524 |
| -15 | 66.968 | 68.963 | 71.011 | 2.969 | -2.893 | 0.532 | -0.518 |
| -14 | 63.591 | 65.451 | 67.360 | 2.915 | -2.842 | 0.526 | -0.512 |
| -13 | 60.394 | 62.129 | 63.907 | 2.861 | -2.791 | 0.519 | -0.506 |
| -12 | 57.369 | 58.986 | 60.643 | 2.808 | -2.741 | 0.512 | -0.500 |
| -11 | 54.504 | 56.012 | 57.555 | 2.755 | -2.691 | 0.506 | -0.494 |
| -10 | 51.793 | 53.198 | 54.635 | 2.702 | -2.640 | 0.499 | -0.488 |
| -9 | 49.225 | 50.534 | 51.873 | 2.649 | -2.590 | 0.492 | -0.481 |
| -8 | 46.793 | 48.013 | 49.260 | 2.597 | -2.541 | 0.485 | -0.475 |
| -7 | 44.490 | 45.627 | 46.788 | 2.544 | -2.491 | 0.478 | -0.468 |
| -6 | 42.309 | 43.368 | 44.449 | 2.492 | -2.441 | 0.471 | -0.462 |
| -5 | 40.243 | 41.229 | 42.235 | 2.440 | -2.392 | 0.464 | -0.455 |
| -4 | 38.285 | 39.204 | 40.140 | 2.389 | -2.343 | 0.457 | -0.449 |
| -3 | 36.430 | 37.285 | 38.157 | 2.337 | -2.294 | 0.450 | -0.442 |
| -2 | 34.672 | 35.468 | 36.279 | 2.286 | -2.245 | 0.443 | -0.435 |
| -1 | 33.005 | 33.747 | 34.501 | 2.235 | -2.196 | 0.436 | -0.428 |
| 0 | 31.426 | 32.116 | 32.817 | 2.185 | -2.148 | 0.428 | -0.421 |
| 1 | 29.928 | 30.570 | 31.222 | 2.134 | -2.100 | 0.421 | -0.414 |
| 2 | 28.507 | 29.105 | 29.711 | 2.084 | -2.052 | 0.414 | -0.407 |
| 3 | 27.160 | 27.716 | 28.280 | 2.034 | -2.004 | 0.406 | -0.400 |
| 4 | 25.882 | 26.399 | 26.923 | 1.985 | -1.956 | 0.399 | -0.393 |
| 5 | 24.670 | 25.150 | 25.637 | 1.935 | -1.908 | 0.391 | -0.386 |
| 6 | 23.519 | 23.965 | 24.418 | 1.886 | -1.861 | 0.383 | -0.378 |
| 7 | 22.427 | 22.842 | 23.262 | 1.837 | -1.814 | 0.376 | -0.371 |
| 8 | 21.391 | 21.776 | 22.165 | 1.789 | -1.767 | 0.368 | -0.364 |
| 9 | 20.407 | 20.764 | 21.125 | 1.740 | -1.720 | 0.360 | -0.356 |
| 10 | 19.452 | 19.783 | 20.117 | 1.691 | -1.673 | 0.353 | -0.349 |
| 11 | 18.584 | 18.892 | 19.203 | 1.644 | -1.627 | 0.344 | -0.341 |
| 12 | 17.741 | 18.026 | 18.314 | 1.596 | -1.581 | 0.336 | -0.333 |
| 13 | 16.940 | 17.204 | 17.471 | 1.549 | -1.535 | 0.328 | -0.325 |
| 14 | 16.178 | 16.423 | 16.670 | 1.502 | -1.489 | 0.320 | -0.318 |
| 15 | 15.455 | 15.681 | 15.909 | 1.455 | -1.444 | 0.312 | -0.310 |
| 16 | 14.766 | 14.976 | 15.187 | 1.408 | -1.399 | 0.304 | -0.302 |
| 17 | 14.112 | 14.306 | 14.501 | 1.362 | -1.353 | 0.296 | -0.294 |
| 18 | 13.490 | 13.669 | 13.849 | 1.316 | -1.308 | 0.287 | -0.286 |
| 19 | 12.898 | 13.063 | 13.229 | 1.270 | -1.264 | 0.279 | -0.278 |
| 20 | 12.335 | 12.487 | 12.640 | 1.224 | -1.219 | 0.271 | -0.269 |
| 21 | 11.799 | 11.939 | 12.080 | 1.179 | -1.175 | 0.262 | -0.261 |
| 22 | 11.288 | 11.418 | 11.547 | 1.134 | -1.131 | 0.253 | -0.253 |
| 23 | 10.803 | 10.921 | 11.040 | 1.089 | -1.087 | 0.245 | -0.244 |

阻温特性表

R25=10K Ω 精度:±1% B25/50=3950K B25/85=4021K 精度:±1%(P163-6)

| 温度(°C) | 电阻(K Ω) | | | 电阻精度(%) | | 温度精度(°C) | |
|--------|-----------------|--------|--------|------------|-------------|------------|-------------|
| | 最小值 | 中心值 | 最大值 | ΔR | $-\Delta R$ | ΔT | $-\Delta T$ |
| 24 | 10.340 | 10.449 | 10.558 | 1.044 | -1.043 | 0.236 | -0.236 |
| 25 | 9.900 | 10.000 | 10.100 | 1.000 | -1.000 | 0.228 | -0.228 |
| 26 | 9.472 | 9.571 | 9.671 | 1.044 | -1.043 | 0.239 | -0.239 |
| 27 | 9.064 | 9.164 | 9.263 | 1.088 | -1.086 | 0.251 | -0.250 |
| 28 | 8.676 | 8.775 | 8.875 | 1.131 | -1.129 | 0.262 | -0.262 |
| 29 | 8.307 | 8.405 | 8.504 | 1.175 | -1.171 | 0.274 | -0.273 |
| 30 | 7.955 | 8.052 | 8.151 | 1.218 | -1.214 | 0.286 | -0.285 |
| 31 | 7.619 | 7.716 | 7.814 | 1.262 | -1.256 | 0.298 | -0.296 |
| 32 | 7.300 | 7.396 | 7.492 | 1.305 | -1.298 | 0.309 | -0.308 |
| 33 | 6.995 | 7.090 | 7.186 | 1.347 | -1.339 | 0.322 | -0.320 |
| 34 | 6.705 | 6.798 | 6.893 | 1.390 | -1.381 | 0.334 | -0.331 |
| 35 | 6.428 | 6.520 | 6.614 | 1.432 | -1.422 | 0.346 | -0.343 |
| 36 | 6.163 | 6.255 | 6.347 | 1.474 | -1.463 | 0.358 | -0.355 |
| 37 | 5.911 | 6.002 | 6.093 | 1.516 | -1.504 | 0.370 | -0.367 |
| 38 | 5.671 | 5.760 | 5.850 | 1.558 | -1.544 | 0.383 | -0.379 |
| 39 | 5.441 | 5.529 | 5.617 | 1.600 | -1.584 | 0.395 | -0.392 |
| 40 | 5.222 | 5.309 | 5.396 | 1.641 | -1.624 | 0.408 | -0.404 |
| 41 | 5.013 | 5.098 | 5.184 | 1.682 | -1.664 | 0.421 | -0.416 |
| 42 | 4.813 | 4.897 | 4.981 | 1.723 | -1.704 | 0.433 | -0.428 |
| 43 | 4.622 | 4.704 | 4.787 | 1.764 | -1.743 | 0.446 | -0.441 |
| 44 | 4.440 | 4.521 | 4.602 | 1.804 | -1.782 | 0.459 | -0.453 |
| 45 | 4.266 | 4.345 | 4.425 | 1.845 | -1.821 | 0.472 | -0.466 |
| 46 | 4.099 | 4.177 | 4.256 | 1.885 | -1.860 | 0.485 | -0.479 |
| 47 | 3.940 | 4.016 | 4.094 | 1.925 | -1.898 | 0.498 | -0.491 |
| 48 | 3.788 | 3.863 | 3.939 | 1.965 | -1.937 | 0.511 | -0.504 |
| 49 | 3.642 | 3.716 | 3.790 | 2.004 | -1.975 | 0.525 | -0.517 |
| 50 | 3.515 | 3.588 | 3.661 | 2.040 | -2.009 | 0.539 | -0.531 |
| 51 | 3.370 | 3.440 | 3.512 | 2.083 | -2.050 | 0.551 | -0.543 |
| 52 | 3.242 | 3.311 | 3.381 | 2.122 | -2.088 | 0.565 | -0.556 |
| 53 | 3.120 | 3.188 | 3.257 | 2.161 | -2.125 | 0.579 | -0.569 |
| 54 | 3.003 | 3.069 | 3.137 | 2.199 | -2.162 | 0.592 | -0.582 |
| 55 | 2.891 | 2.956 | 3.022 | 2.238 | -2.199 | 0.606 | -0.595 |
| 56 | 2.784 | 2.848 | 2.912 | 2.276 | -2.235 | 0.620 | -0.609 |
| 57 | 2.681 | 2.744 | 2.807 | 2.314 | -2.271 | 0.634 | -0.622 |
| 58 | 2.583 | 2.644 | 2.706 | 2.352 | -2.308 | 0.648 | -0.636 |
| 59 | 2.489 | 2.548 | 2.609 | 2.390 | -2.344 | 0.662 | -0.649 |
| 60 | 2.398 | 2.457 | 2.516 | 2.427 | -2.379 | 0.676 | -0.663 |
| 61 | 2.312 | 2.369 | 2.427 | 2.464 | -2.415 | 0.690 | -0.676 |
| 62 | 2.228 | 2.284 | 2.342 | 2.502 | -2.450 | 0.704 | -0.690 |

阻温特性表

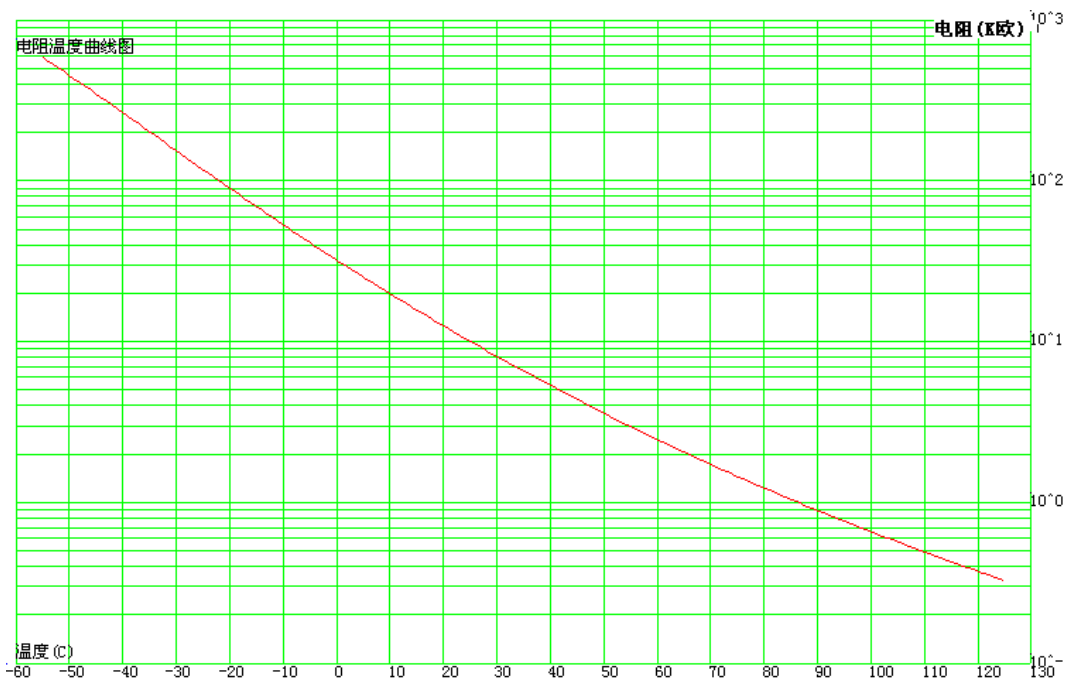
R25=10K Ω 精度:±1% B25/50=3950K B25/85=4021K 精度:±1%(P163-6)

| 温度(°C) | 电阻(K Ω) | | | 电阻精度(%) | | 温度精度(°C) | |
|--------|-----------------|-------|-------|------------|-------------|------------|-------------|
| | 最小值 | 中心值 | 最大值 | ΔR | $-\Delta R$ | ΔT | $-\Delta T$ |
| 63 | 2.149 | 2.204 | 2.260 | 2.539 | -2.485 | 0.719 | -0.704 |
| 64 | 2.072 | 2.126 | 2.181 | 2.575 | -2.520 | 0.733 | -0.718 |
| 65 | 1.999 | 2.051 | 2.105 | 2.612 | -2.555 | 0.748 | -0.732 |
| 66 | 1.929 | 1.980 | 2.032 | 2.648 | -2.590 | 0.762 | -0.746 |
| 67 | 1.861 | 1.911 | 1.963 | 2.685 | -2.624 | 0.777 | -0.760 |
| 68 | 1.796 | 1.845 | 1.895 | 2.721 | -2.658 | 0.792 | -0.774 |
| 69 | 1.734 | 1.782 | 1.831 | 2.756 | -2.692 | 0.807 | -0.788 |
| 70 | 1.674 | 1.721 | 1.769 | 2.792 | -2.726 | 0.822 | -0.802 |
| 71 | 1.617 | 1.663 | 1.710 | 2.828 | -2.760 | 0.837 | -0.816 |
| 72 | 1.561 | 1.606 | 1.652 | 2.863 | -2.793 | 0.852 | -0.831 |
| 73 | 1.508 | 1.552 | 1.597 | 2.898 | -2.826 | 0.867 | -0.845 |
| 74 | 1.457 | 1.500 | 1.544 | 2.933 | -2.859 | 0.882 | -0.860 |
| 75 | 1.408 | 1.450 | 1.493 | 2.968 | -2.892 | 0.897 | -0.874 |
| 76 | 1.361 | 1.402 | 1.444 | 3.003 | -2.925 | 0.913 | -0.889 |
| 77 | 1.316 | 1.356 | 1.397 | 3.037 | -2.958 | 0.928 | -0.904 |
| 78 | 1.272 | 1.312 | 1.352 | 3.072 | -2.990 | 0.944 | -0.919 |
| 79 | 1.230 | 1.269 | 1.308 | 3.106 | -3.022 | 0.959 | -0.933 |
| 80 | 1.190 | 1.228 | 1.266 | 3.140 | -3.054 | 0.975 | -0.948 |
| 81 | 1.151 | 1.188 | 1.226 | 3.174 | -3.086 | 0.991 | -0.963 |
| 82 | 1.114 | 1.150 | 1.187 | 3.207 | -3.117 | 1.007 | -0.978 |
| 83 | 1.078 | 1.113 | 1.149 | 3.241 | -3.149 | 1.023 | -0.994 |
| 84 | 1.043 | 1.078 | 1.113 | 3.274 | -3.180 | 1.039 | -1.009 |
| 85 | 1.010 | 1.044 | 1.078 | 3.308 | -3.211 | 1.055 | -1.024 |
| 86 | 0.978 | 1.011 | 1.044 | 3.341 | -3.242 | 1.071 | -1.039 |
| 87 | 0.947 | 0.979 | 1.012 | 3.374 | -3.273 | 1.087 | -1.055 |
| 88 | 0.917 | 0.948 | 0.981 | 3.406 | -3.304 | 1.103 | -1.070 |
| 89 | 0.888 | 0.919 | 0.951 | 3.439 | -3.334 | 1.120 | -1.086 |
| 90 | 0.861 | 0.891 | 0.922 | 3.471 | -3.364 | 1.136 | -1.101 |
| 91 | 0.834 | 0.863 | 0.894 | 3.504 | -3.395 | 1.153 | -1.117 |
| 92 | 0.808 | 0.837 | 0.867 | 3.536 | -3.425 | 1.169 | -1.133 |
| 93 | 0.783 | 0.811 | 0.840 | 3.568 | -3.454 | 1.186 | -1.149 |
| 94 | 0.759 | 0.787 | 0.815 | 3.599 | -3.484 | 1.203 | -1.164 |
| 95 | 0.736 | 0.763 | 0.791 | 3.631 | -3.513 | 1.220 | -1.180 |
| 96 | 0.714 | 0.740 | 0.767 | 3.663 | -3.543 | 1.237 | -1.196 |
| 97 | 0.693 | 0.718 | 0.745 | 3.694 | -3.572 | 1.254 | -1.212 |
| 98 | 0.672 | 0.697 | 0.723 | 3.725 | -3.601 | 1.271 | -1.229 |
| 99 | 0.652 | 0.676 | 0.702 | 3.756 | -3.630 | 1.288 | -1.245 |
| 100 | 0.632 | 0.657 | 0.681 | 3.787 | -3.659 | 1.305 | -1.261 |
| 101 | 0.614 | 0.637 | 0.662 | 3.818 | -3.687 | 1.323 | -1.277 |
| 102 | 0.596 | 0.619 | 0.643 | 3.849 | -3.716 | 1.340 | -1.294 |

阻温特性表

R25=10KΩ 精度:±1% B25/50=3950K B25/85=4021K 精度:±1%(P163-6)

| 温度(°C) | 电阻(KΩ) | | | 电阻精度(%) | | 温度精度(°C) | |
|--------|--------|-------|-------|---------|--------|----------|--------|
| | 最小值 | 中心值 | 最大值 | △R | -△R | △T | -△T |
| 103 | 0.578 | 0.601 | 0.624 | 3.879 | -3.744 | 1.358 | -1.310 |
| 104 | 0.562 | 0.584 | 0.606 | 3.909 | -3.772 | 1.375 | -1.327 |
| 105 | 0.545 | 0.567 | 0.589 | 3.940 | -3.800 | 1.393 | -1.343 |
| 106 | 0.530 | 0.551 | 0.573 | 3.970 | -3.828 | 1.410 | -1.360 |
| 107 | 0.514 | 0.535 | 0.556 | 4.000 | -3.855 | 1.428 | -1.377 |
| 108 | 0.500 | 0.520 | 0.541 | 4.029 | -3.883 | 1.446 | -1.394 |
| 109 | 0.485 | 0.505 | 0.526 | 4.059 | -3.910 | 1.464 | -1.410 |
| 110 | 0.472 | 0.491 | 0.511 | 4.089 | -3.938 | 1.482 | -1.427 |
| 111 | 0.459 | 0.477 | 0.497 | 4.118 | -3.965 | 1.500 | -1.444 |
| 112 | 0.446 | 0.464 | 0.483 | 4.147 | -3.992 | 1.518 | -1.461 |
| 113 | 0.433 | 0.451 | 0.470 | 4.176 | -4.018 | 1.537 | -1.479 |
| 114 | 0.421 | 0.439 | 0.458 | 4.205 | -4.045 | 1.555 | -1.496 |
| 115 | 0.410 | 0.427 | 0.445 | 4.234 | -4.072 | 1.573 | -1.513 |
| 116 | 0.398 | 0.415 | 0.433 | 4.263 | -4.098 | 1.592 | -1.530 |
| 117 | 0.387 | 0.404 | 0.422 | 4.291 | -4.124 | 1.610 | -1.548 |
| 118 | 0.377 | 0.393 | 0.410 | 4.320 | -4.150 | 1.629 | -1.565 |
| 119 | 0.367 | 0.383 | 0.399 | 4.348 | -4.176 | 1.648 | -1.583 |
| 120 | 0.357 | 0.373 | 0.389 | 4.376 | -4.202 | 1.667 | -1.600 |
| 121 | 0.347 | 0.363 | 0.379 | 4.404 | -4.228 | 1.686 | -1.618 |
| 122 | 0.338 | 0.353 | 0.369 | 4.432 | -4.254 | 1.705 | -1.636 |
| 123 | 0.329 | 0.344 | 0.359 | 4.460 | -4.279 | 1.724 | -1.654 |
| 124 | 0.320 | 0.335 | 0.350 | 4.488 | -4.305 | 1.743 | -1.672 |
| 125 | 0.312 | 0.326 | 0.341 | 4.515 | -4.330 | 1.762 | -1.689 |



附表 2

阻值误差曲线图

