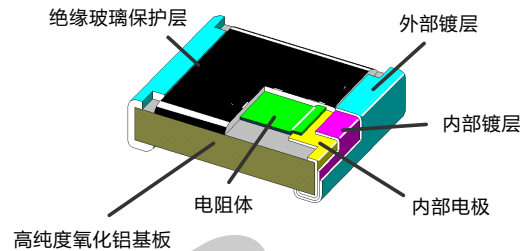


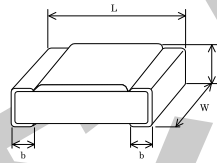
NTC贴片热敏电阻，采用第3代厚膜烧结工艺，高可靠性， 高温检测精度，符合AEC-Q200测试要求的汽车级产品

结构及特点

- 氧化铝基板上的热敏电阻膜层由绝缘玻璃保护使得该系列拥有很好的机械强度和可靠性；
- 无论阻值大小，电阻厚度不变；
- 三层结构电极保证了电阻具有良好的焊接能力和耐热性；
- 符合AEC-Q200车规认证；
- 部分型号符合UL1434标准；
- $B_{25/85}$ 为3000K及以上的所有型号最高工作温度可达150°C，
 $B_{25/85}$ 为3000K以下的型号最高工作温度可达125°C。



规格及尺寸 (毫米mm)



| 系列号 | L | W | t | b | 包装数量 |
|----------|-----------|-----------|-----------|----------------|-----------|
| TCTR0402 | 1.00±0.05 | 0.50±0.05 | 0.35±0.05 | 0.25+0.05-0.10 | 10,000pcs |
| TCTR0603 | 1.60±0.15 | 0.80±0.15 | 0.50±0.10 | 0.30±0.20 | 5,000pcs |
| TCTR0805 | 2.00±0.20 | 1.25±0.20 | 0.55±0.10 | 0.40±0.20 | |

参数

| 系列号 | 阻值精度 | B值精度 | 散热系数 $\delta \leq 1.5 \text{ mW/}^\circ\text{C}$ | 热时间常数 $\tau \leq 5.0 \text{ sec}$ | 最大运行功率 | 额定功率 | 工作温度范围 |
|----------|-----------------------------|-----------------------|---|--------------------------------------|--------|-------|------------|
| TCTR0402 | ±1%, ±2%, ±3%, ±5%, ±10% | ±1%, ±2%, ±3%, ±5% | ≈1.1 mW/°C | ≈1.5sec | 5mW | 110mW | -40~+125°C |
| TCTR0603 | | | ≈1.2 mW/°C | ≈2.0sec | | 120mW | |
| TCTR0805 | | | ≈1.3 mW/°C | ≈2.5sec | | 130mW | |

| B值(25°C/85°C) | 标准阻值范围(25°C) | | |
|---------------|--------------|--------------|--------------|
| | TCTR0402 (Ω) | TCTR0603 (Ω) | TCTR0805 (Ω) |
| 4610~4800K | 75k~820k | 47k~1.6M | 24k~470k |
| 4410~4600K | 24k~470k | 15k~910k | 8.2k~430k |
| 4210~4400K | 9.1k~110k | 6.2k~200k | 3.0k~91k |
| 4010~4200K | 7.5k~100k | 4.7k~200k | 2.7k~91k |
| 3810~4000K | 3.6k~62k | 2.4k~110k | 1.2k~51k |
| 3610~3800K | 2k~30k | 1.2k~56k | 620~27k |
| 3410~3600K | 1.8k~30k | 1.1k~56k | 620~27k |
| 3210~3400K | 2.4k~22k | 1.5k~43k | 750~18k |
| 3010~3200K | 1.1k~10k | 750~20k | 390~9.1k |

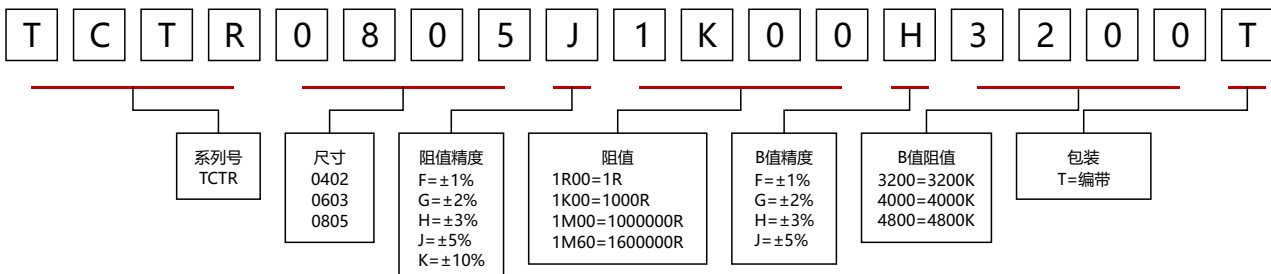
注：其他B值产品可以接受定制。

阻值温度特性表

| 温度 (°C) | 阻值 (25°C) / B值 (25°C/85°C) | | | | | | | | |
|---------|----------------------------|----------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|
| | 单位: Ω | | | | | | | | |
| | R:1kΩ | R:1kΩ | R:10kΩ | R:10kΩ | R:10kΩ | R:10kΩ | R:100kΩ | R:100kΩ | R:100kΩ |
| | B:3000K | B:3200K | B:3450K | B:3700K | B:3900K | B:4100K | B:4300K | B:4500K | B:4700K |
| -40 | 14,270.0 | 17,200.0 | 217,300.0 | 274,600.0 | 331,000.0 | 399,100.0 | 4,039,000.0 | 4,870,000.0 | 5,871,000.0 |
| -35 | 11,130.0 | 13,180.0 | 162,800.0 | 201,100.0 | 238,200.0 | 282,000.0 | 2,878,000.0 | 3,408,000.0 | 4,036,000.0 |
| -30 | 8,761.0 | 10,200.0 | 123,300.0 | 149,000.0 | 173,400.0 | 201,800.0 | 2,073,000.0 | 2,413,000.0 | 2,808,000.0 |
| -25 | 6,953.0 | 7,959.0 | 94,240.0 | 111,600.0 | 127,700.0 | 146,200.0 | 1,508,000.0 | 1,727,000.0 | 1,976,000.0 |
| -20 | 5,561.0 | 6,265.0 | 72,720.0 | 84,410.0 | 95,100.0 | 107,100.0 | 1,108,000.0 | 1,248,000.0 | 1,407,000.0 |
| -15 | 4,481.0 | 4,972.0 | 56,620.0 | 64,470.0 | 71,530.0 | 79,370.0 | 821,600.0 | 911,600.0 | 1,011,000.0 |
| -10 | 3,636.0 | 3,976.0 | 44,450.0 | 49,690.0 | 54,330.0 | 59,400.0 | 614,500.0 | 671,900.0 | 734,600.0 |
| -5 | 2,971.0 | 3,202.0 | 35,170.0 | 38,630.0 | 41,640.0 | 44,890.0 | 463,500.0 | 499,700.0 | 538,600.0 |
| 0 | 2,443.0 | 2,597.0 | 28,040.0 | 30,280.0 | 32,200.0 | 34,240.0 | 352,500.0 | 374,800.0 | 398,500.0 |
| 5 | 2,020.0 | 2,120.0 | 22,520.0 | 23,920.0 | 25,100.0 | 26,340.0 | 270,100.0 | 283,400.0 | 297,400.0 |
| 10 | 1,681.0 | 1,742.0 | 18,210.0 | 19,040.0 | 19,730.0 | 20,440.0 | 208,500.0 | 216,000.0 | 223,900.0 |
| 15 | 1,406.0 | 1,440.0 | 14,820.0 | 15,260.0 | 15,620.0 | 15,990.0 | 162,100.0 | 165,900.0 | 169,800.0 |
| 20 | 1,183.0 | 1,197.0 | 12,140.0 | 12,310.0 | 12,450.0 | 12,600.0 | 126,900.0 | 128,400.0 | 129,800.0 |
| 25 | 1,000.0 | 1,000.0 | 10,000.0 | 10,000.0 | 10,000.0 | 10,000.0 | 100,000.0 | 100,000.0 | 100,000.0 |
| 30 | 849.5 | 840.1 | 8,286.0 | 8,172.0 | 8,082.0 | 7,993.0 | 79,300.0 | 78,430.0 | 77,570.0 |
| 35 | 725.0 | 709.4 | 6,903.0 | 6,718.0 | 6,573.0 | 6,432.0 | 63,280.0 | 61,920.0 | 60,580.0 |
| 40 | 621.5 | 601.8 | 5,782.0 | 5,554.0 | 5,378.0 | 5,208.0 | 50,790.0 | 49,190.0 | 47,630.0 |
| 45 | 535.1 | 513.0 | 4,867.0 | 4,617.0 | 4,426.0 | 4,243.0 | 41,010.0 | 39,310.0 | 37,690.0 |
| 50 | 462.6 | 439.2 | 4,116.0 | 3,858.0 | 3,663.0 | 3,477.0 | 33,290.0 | 31,610.0 | 30,010.0 |
| 55 | 401.5 | 377.7 | 3,498.0 | 3,240.0 | 3,047.0 | 2,866.0 | 27,170.0 | 25,560.0 | 24,040.0 |
| 60 | 349.9 | 326.1 | 2,986.0 | 2,734.0 | 2,548.0 | 2,375.0 | 22,300.0 | 20,780.0 | 19,360.0 |
| 65 | 306.0 | 282.6 | 2,560.0 | 2,318.0 | 2,141.0 | 1,978.0 | 18,390.0 | 16,980.0 | 15,690.0 |
| 70 | 268.6 | 246.0 | 2,203.0 | 1,974.0 | 1,808.0 | 1,656.0 | 15,240.0 | 13,960.0 | 12,780.0 |
| 75 | 236.5 | 214.8 | 1,904.0 | 1,688.0 | 1,533.0 | 1,392.0 | 12,690.0 | 11,530.0 | 10,470.0 |
| 80 | 209.0 | 188.3 | 1,652.0 | 1,450.0 | 1,306.0 | 1,177.0 | 10,620.0 | 9,566.0 | 8,617.0 |
| 85 | 185.3 | 165.6 | 1,439.0 | 1,251.0 | 1,118.0 | 998.8 | 8,927.0 | 7,978.0 | 7,130.0 |
| 90 | 164.8 | 146.2 | 1,258.0 | 1,083.0 | 960.2 | 851.5 | 7,537.0 | 6,684.0 | 5,928.0 |
| 95 | 147.0 | 129.4 | 1,103.0 | 940.9 | 828.2 | 729.0 | 6,392.0 | 5,626.0 | 4,953.0 |
| 100 | 131.5 | 115.0 | 971.3 | 820.6 | 717.1 | 626.7 | 5,444.0 | 4,757.0 | 4,157.0 |
| 105 | 118.0 | 102.4 | 857.7 | 718.3 | 623.2 | 540.8 | 4,655.0 | 4,040.0 | 3,505.0 |
| 110 | 106.2 | 91.5 | 759.8 | 630.9 | 543.6 | 468.5 | 3,998.0 | 3,445.0 | 2,969.0 |
| 115 | 95.8 | 82.0 | 675.3 | 555.9 | 475.9 | 407.3 | 3,447.0 | 2,950.0 | 2,525.0 |
| 120 | 86.7 | 73.7 | 601.9 | 491.5 | 418.0 | 355.4 | 2,983.0 | 2,537.0 | 2,157.0 |
| 125 | 78.6 | 66.4 | 538.1 | 435.9 | 368.3 | 311.2 | 2,592.0 | 2,190.0 | 1,850.0 |
| 150 | 50.0 | 41.0 | 320.3 | 250.0 | 205.1 | 168.2 | 1,356.0 | 1,112.0 | 912.4 |

选型表

选型示例: TCTR0805J1K00H3200T (TCTR 0805 ±5% 1KΩ B值精度±3% B值3200K 编带)



B值: 由25°C和85°C零功率阻值计算得出

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[TCTR0603F10K0F3930T](#) [TCTR0805F100KF4460T](#) [TCTR0805F100KF4310T](#)