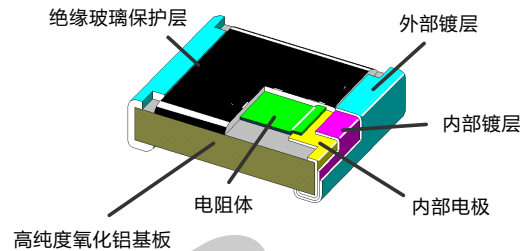


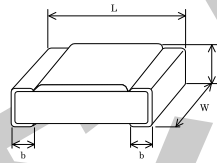
## NTC贴片热敏电阻，采用第3代厚膜烧结工艺，高可靠性， 高温检测精度，符合AEC-Q200测试要求的汽车级产品

### 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

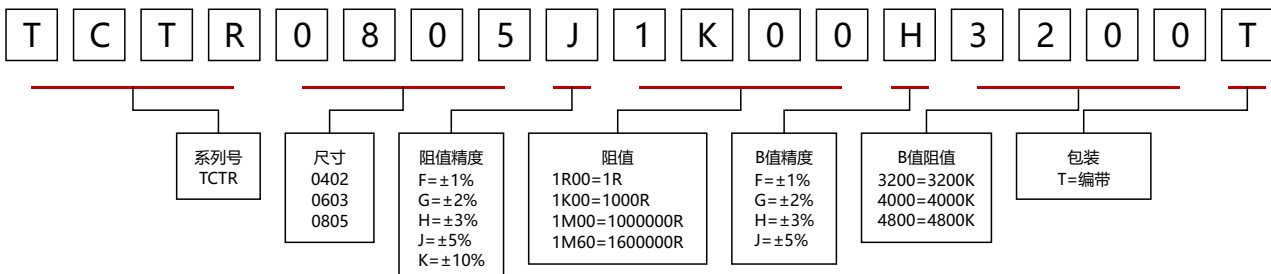
注：其他B值产品可以接受定制。

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](#)