

编号: I0021

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER:

产品名称

PART NAME:

片式负温度系数热敏电阻器

Chip NTC Thermistord

规格

SPECIFICATION:

CMF Series

版本

VERSION:

A0

日期

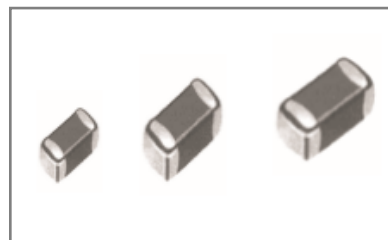
DATE OF ISSUE:

2024-05-16

制 造 MANUFACTURER			客 户 CUSTOMER		
拟制 DESIGN	审核 CHECK	批准 APPROVAL	检验 INSPECTOR	审核 CHECK	批准 APPROVAL
褚俊华	岑权进	陈志华			

■片式负温度系数热敏电阻器 Chip NTC Thermistord

片式NTCR具有无引线、片状化、体积小、响应快等特点。它的瓷体表面采用了玻璃层作保护，同时端头电极进行了可靠的三层电镀工艺，实现片式NTC产品优良的焊接性能、高可靠的品质特性。



The chip NTC thermistor has the features of miniature size, no-lead, quick temperature response. The product's ceramic body are coated with glass. The termination has been carried on craft of electroplating of three layers, suit for reflow and flow solder. Has the high reliability.

◆特征

Feature

- * 体积小, 适合高密度表面贴装。
Minature size, suitable for SMT.
- * 玻璃釉包覆保护, 精度高、阻值漂移小。
Porcelain body and glass glaze.
- * 优良的焊接性和耐焊性。
Excellent in solderability and heat resistance;

◆应用

Application

- * 可充电电池、CPU的温度探测。
Temperature sensing in rechargeable batteries and CPU.
- * IC、LCD、石英振荡器的温度补偿。
Temperature compensation in IC、LCD、Crystal oscillator and so on.
- * 需温度补偿和探测的各种电路。
Temperature compensation or temperature sensing for various types of circuits.

◆产品规格型号表示方法

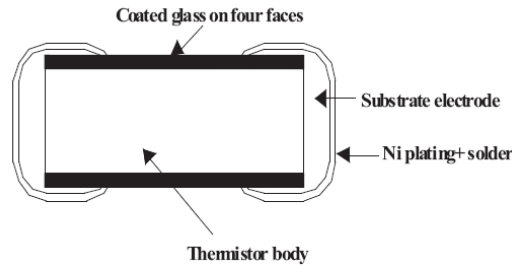
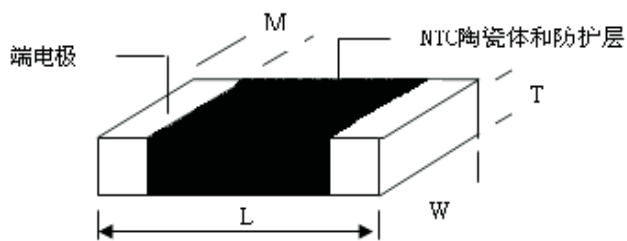
Part number identification

CMF	A	103	J	3500	H	A	N	T
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① 产品代号 Product code		② 规格尺寸 (L×W×T) (mm) Dimensions		③ 标称阻值 Rated resistance R25 (Ω)		④ 阻值公差 Tolerance (%)		⑤ 材料常数 B 值 (K) Material constant		⑥ B 值精度 Tolerance (%)		⑦ B 值温度代码 B value Temperature Code (°C/°C)		⑧ 端电极 Termina Electrodel	⑨ 包装方式 Packaging Style
CMF	片式负温度系数热敏电阻器 Chip NTC Thermistor	D	1.0×0.5	103	10000	F	±1	直接读数 Direct read 3500		F	±1	A	25/50	端电极材料 代号: N 为 三层电镀 Termination Code: N Nickel Barrier	T 卷带盘装 Tape&Reel
		A	1.6×0.8	前二位为有效数字, 第三位表示有效数字后“0”的个数 The first two are Significant figure of resistance and the thir done expresses number of following zeros.		G	±2			G	±2	B	25/ 85		
		B	2.0×1.2			H	±3			H	±3	C	0/25		
		C	3.2×1.6			J	±5					D	0/50		B 散装 Bulk

◆内部结构与外形尺寸

Inner-configuration and dimension



单位(Unit): mm/inch

型号 Size	L	W	T	M
100505 (0402)	0.60±0.05 (0.024±0.002)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.25±0.10 (0.010±0.004)
100505 (0402)	1.0±0.15 (0.040±0.006)	0.5±0.15 (0.020±0.006)	0.5±0.15 (0.020±0.006)	0.25±0.10 (0.010±0.004)
160808 (0603)	1.6±0.15 (0.063±0.008)	0.75±0.15 (0.031±0.008)	0.75±0.15 (0.031±0.008)	0.30±0.2 (0.012±0.008)
201209 (0805)	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.047±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
321611 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.1±0.2 (0.043±0.008)	0.5±0.3 (0.020±0.012)

◆性能参数

Specification

1005 (0402) Type

型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFD103□3900HANT	10	3900	0.31	<5	1.0	100
CMFD473□3950HANT	47	3950	0.12			
CMFD503□3950HANT	50	3950	0.12			
CMFD683□3950HANT	68	3950	0.11			
CMFD104□3900HANT	100	3900	0.1			
CMFD154□4100HANT	150	4100	0.08			
CMFD224□3950HANT	220	3950	0.06			
CMFD334□4050HANT	330	4050	0.05			
CMFD474□4050HANT	470	4050	0.04			
CMFD684□4200HANT	680	4200	0.02			

在□中填入电阻值允许偏差代号 Please specify the resistance tolerance code (F: ±1%; G: ±2%; H: ±3%; J: ±5%; K: ±10%)。

1608 (0603) Type

型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFA102□3200HANT	1.0	3200	1.0	<7	1.0	100
CMFA202□3380HANT	2.0	3380	0.7			
CMFA222□3450HANT	2.2	3450	0.67			
CMFA332□3400HANT	3.3	3400	0.55			
CMFA472□3500HANT	4.7	3500	0.46			
CMFA472□3950HANT	4.7	3950	0.46			
CMFA502□3500HANT	5.0	3500	0.44			
CMFA502□3950HANT	5.0	3950	0.44			
CMFA682□3950HANT	6.8	3950	0.38			
CMFA103□3500HANT	10	3500	0.31			
CMFA103□3600HANT	10	3600	0.31			
CMFA103□3950HANT	10	3950	0.31			
CMFA223□3300HANT	22	3300	0.23			
CMFA223□3950HANT	22	3950	0.23			
CMFA303□3950HANT	30	3950	0.18			
CMFA333□3950HANT	33	3950	0.17			
CMFA473□3950HANT	47	3950	0.14			
CMFA503□3950HANT	50	3950	0.13			
CMFA683□3950HANT	68	3950	0.12			
CMFA104□3950HANT	100	3950	0.1			
CMFA154□3950HANT	150	3950	0.08			
CMFA204□4050HANT	200	4050	0.07			
CMFA224□4050HANT	220	4050	0.06			
CMFA334□4050HANT	330	4050	0.05			
CMFA474□4200HANT	470	4200	0.04			
CMFA564□4200HANT	560	4200	0.03			
CMFA684□4200HANT	680	4200	0.02			

在□中填入电阻值允许偏差代号 Please specify the resistance tolerance code (F: ±1%; G: ±2%; H: ±3%; J: ±5%; K: ±10%)。

2012 (0805) Type

型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFB801□3200HANT	0.8	3200	1.6	<9	2.0	200
CMFB102□3200HANT	1.0	3200	1.4			
CMFB202□3400HANT	2.0	3400	1.1			
CMFB222□3450HANT	2.2	3450	0.9			
CMFB332□3450HANT	3.3	3450	0.7			

2012 (0805) Type

型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFB472□3450HANT	4.7	3450	0.65	<9	2.0	200
CMFB472□3950HANT	4.7	3950	0.65			
CMFB502□3450HANT	5.0	3450	0.6			
CMFB502□3950HANT	5.0	3950	0.6			
CMFB682□3950HANT	6.8	3950	0.55			
CMFB103□3500HANT	10	3500	0.4			
CMFB103□3600HANT	10	3600	0.4			
CMFB103□3950HANT	10	3950	0.4			
CMFB123□3600HANT	12	3600	0.38			
CMFB223□3950HANT	22	3950	0.31			
CMFB303□3950HANT	30	3950	0.26			
CMFB333□3950HANT	33	3950	0.24			
CMFB473□3950HANT	47	3950	0.2			
CMFB503□3950HANT	50	3950	0.18			
CMFB683□3950HANT	68	3950	0.16			
CMFB104□3950HANT	100	395	0.14			
CMFB124□3950HANT	120	3950	0.13			
CMFB204□4050HANT	200	4050	0.1			
CMFB224□4050HANT	220	4050	0.08			
CMFB304□4150HANT	300	4150	0.06			
CMFB334□4150HANT	330	4150	0.055			
CMFB474□4150HANT	470	4150	0.05			
CMFB564□4150HANT	560	4150	0.045			
CMFB684□4300HANT	680	4300	0.04			
CMFB105□4500HANT	1000	4500	0.02			

在□中填入电阻值允许偏差代号 Please specify the resistance tolerance code (F: ±1%; G: ±2%; H: ±3%; J: ±5%; K: ±10%)。

3216 (1206) Type

型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFC472□3450HANT	4.7	3450	0.7	<9	3.0	300
CMFC472□3900HANT	4.7	3900	0.7			
CMFC502□3450HANT	5.0	3450	0.65			
CMFC502□3900HANT	5.0	3900	0.65			
CMFC682□3900HANT	6.8	3900	0.5			
CMFC103□3600HANT	10	3600	0.45			
CMFC103□3950HANT	10	3950	0.45			

3216 (1206) Type

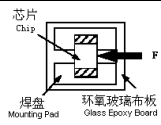
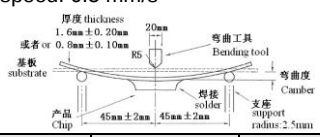
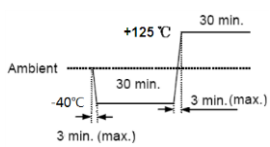
型号规格 PartNumber	零功率标称电阻 Zero Power Resistance @ 25°C	B 值 B Value	最大允许工作电 流Maximum Operating Current @ 25°C	热时间常数 Thermal Time Constant	标准耗散常数 Typical Dissipation Constant @ 25°C	额定功率 Rated Electric Power@ 25°C
	R ₂₅ (KΩ)	B _{25/50} (k)	(mA)	sec	(mW/°C)	(mW)
CMFC223□3950HANT	22	3950	0.34	<9	3.0	300
CMFC333□3950HANT	33	3950	0.26			
CMFC473□3950HANT	47	3950	0.25			
CMFC473□4050HANT	47	4050	0.25			
CMFC503□3950HANT	50	3950	0.23			
CMFC683□3950HANT	68	3950	0.20			
CMFC104□3950HANT	100	3950	0.16			
CMFC154□3950HANT	150	3950	0.14			
CMFC224□4050HANT	220	4050	0.12			
CMFC334□4050HANT	340	4050	0.08			
CMFC474□4200HANT	470	4200	0.06			
CMFC564□4200HANT	560	4200	0.05			
CMFC684□4200HANT	680	4200	0.04			

在□中填入电阻值允许偏差代号 Please specify the resistance tolerance code (F: ±1%; G: ±2%; H: ±3%; J: ±5%; K: ±10%)。

◆可靠性测试方法

Reliability Test Method

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
1	工作温度范围 Operating TemperatureRange	-40℃~+125℃	
2	可焊 Solder ability	至少 95%端电极表面被焊锡覆盖。 At least 95% of terminal electrode should be covered with solder	焊锡温度: 245 °C±3 °C 浸锡深度:10 mm 浸锡时间 : 3±0.3s 浸渍到助焊剂约:3~5 s Solder temperature: 245 °C±3 °C Immersion tin depth:10 mm Duration : 3±0.3s Dip performance to a flux of about:3~5 s
3	耐焊接热 Resistance to Soldering	无可见机械损伤; R25 变化率小于±5%; B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%; B-constant change shall be less than ±2%.	浸锡温度: 260 °C±5 °C 浸锡深度:10 mm 浸锡时间 : 10±1s 浸渍到助焊剂约:3 ~ 5 s Solder temperature: 260 °C±5 °C Immersion tin depth:10 mm Duration : 10±1 s Dip performance to a flux of about:3 ~ 5 s
4	振动 Vibration	无可见机械损伤; R25 变化率小于±5%; B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%; B-constant change shall be less than ±2%.	振动频率范围:10 Hz~55 Hz~10 Hz 全振幅: 1.50 mm 时间:X\Y\Z 轴各 2 小时 Frequency:10 Hz~55 Hz~10 Hz Amplitude: 1.50 mm Time: Vibrated for a period of 2 h,in three directions perpendicularly intersecting each other.

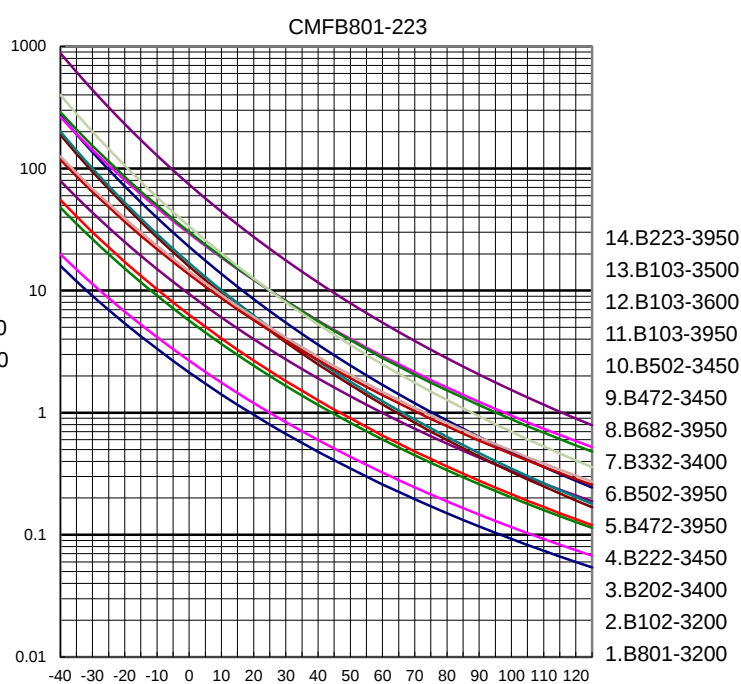
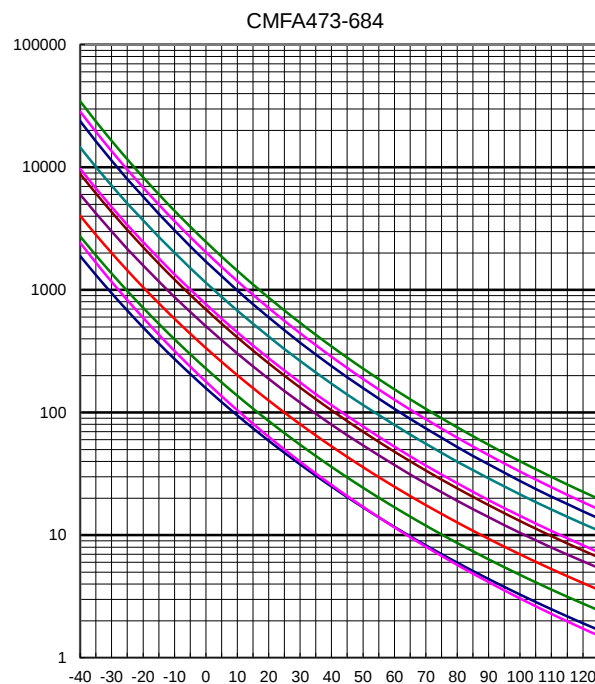
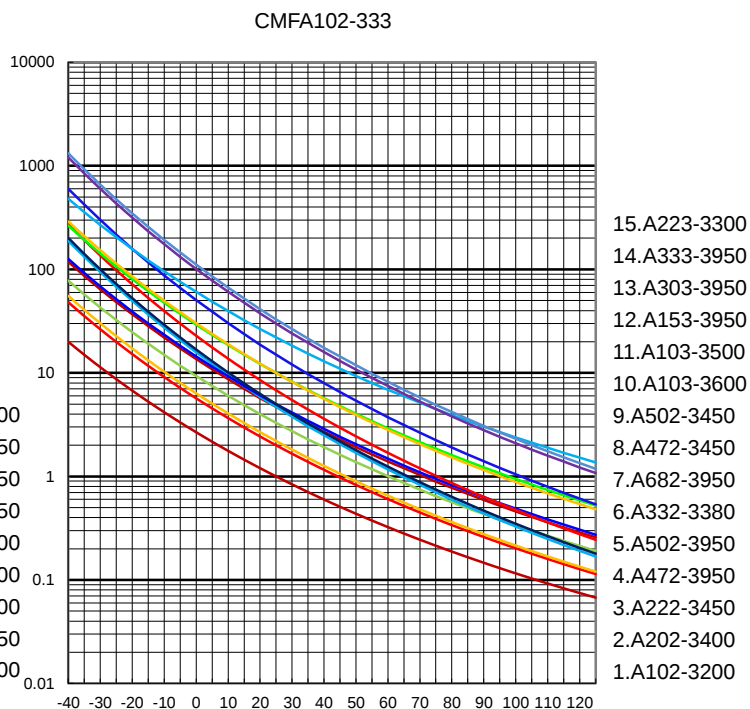
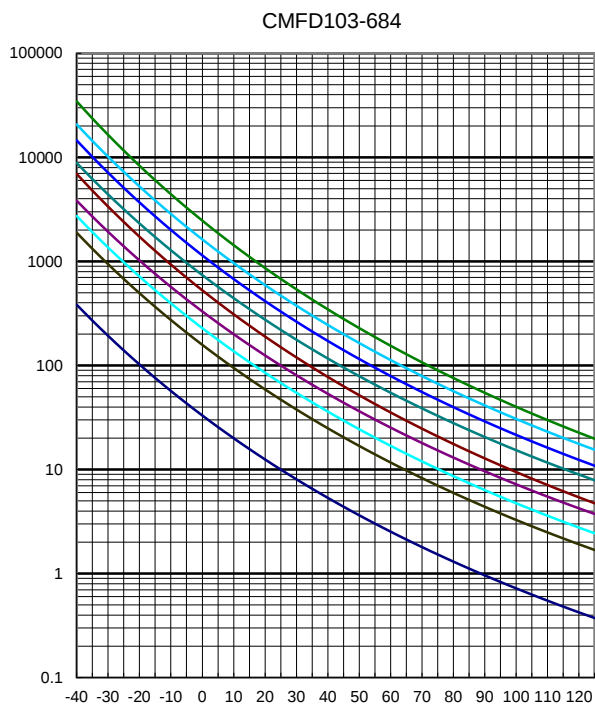
序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks															
5	端电极强度 Adhesion of electrode	端电极与瓷体不应受损，无可见机械损伤。 The termination and body should be no damage.	 <table><tr><th>类型 Type</th><th>推力(N) Force (N)</th><th>时间(s) Time (s)</th></tr><tr><td>0402</td><td>4</td><td>10±1</td></tr><tr><td>0603</td><td>5</td><td>10±1</td></tr><tr><td>0805</td><td>6</td><td>10±1</td></tr><tr><td>1206</td><td>10</td><td>10±1</td></tr></table>	类型 Type	推力(N) Force (N)	时间(s) Time (s)	0402	4	10±1	0603	5	10±1	0805	6	10±1	1206	10	10±1
类型 Type	推力(N) Force (N)	时间(s) Time (s)																
0402	4	10±1																
0603	5	10±1																
0805	6	10±1																
1206	10	10±1																
6	抗弯强度 Resistance to flexure	无可见机械损伤； R25 变化率小于±5%； B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%； B-constant change shall be less than ±2%.	条件:测试基板(PCB) 施压速度:0.5 mm/s Condition: print circuit board. Pressing speed: 0.5 mm/s  <table><tr><th>规格 Size code</th><th>弯曲度 Camber (mm)</th><th>保持时间 Duration (s)</th></tr><tr><td>0402、0603</td><td>0.7</td><td>30</td></tr><tr><td>0805、1206</td><td>1.0</td><td>30</td></tr></table>	规格 Size code	弯曲度 Camber (mm)	保持时间 Duration (s)	0402、0603	0.7	30	0805、1206	1.0	30						
规格 Size code	弯曲度 Camber (mm)	保持时间 Duration (s)																
0402、0603	0.7	30																
0805、1206	1.0	30																
7	耐高温 High temperature resistance	无可见机械损伤； R25 变化率小于±5%； B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%； B-constant change shall be less than ±2%.	测试时间:1000 ⁺²⁴ ₋₀ 小时 测试温度:125 ℃±2 ℃ Testing time: 1000 ⁺²⁴ ₋₀ h Temperature: 125 ℃±2 ℃															
8	耐低温 Low temperature resistance	无可见机械损伤； R25 变化率小于±5%； B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%； B-constant change shall be less than ±2%.	测试温度:-40 ℃±2 ℃ 测试时间:1000 ⁺²⁴ ₋₀ 小时 Temperature:-40 ℃±2 ℃ Testing time:1000 ⁺²⁴ ₋₀ h															
9	恒定湿热 Static Humidity	无可见机械损伤； R25 变化率小于±5%； B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%； B-constant change shall be less than ±2%.	湿度:90%~95% RH, 温度:60 ℃±2 ℃ 测试时间:1000 ⁺²⁴ ₋₀ 小时 Humidity: 90% to 95% RH Temperature: 60 ℃±2 ℃ Testing time: 1000 ⁺²⁴ ₋₀ h															
10	温度冲击 Temperature Shock	无可见机械损伤； R25 变化率小于±5%； B 值变化率小于±2% No mechanical damage. R25 change shall be less than±5%； B-constant change shall be less than ±2%.	温度: -40℃, 30±3 分钟; +125℃, 30±3 分钟 循环次数: 32 Temperature: -40℃ for 30±3min +125℃ for 30±3min Number of cycles: 32 															

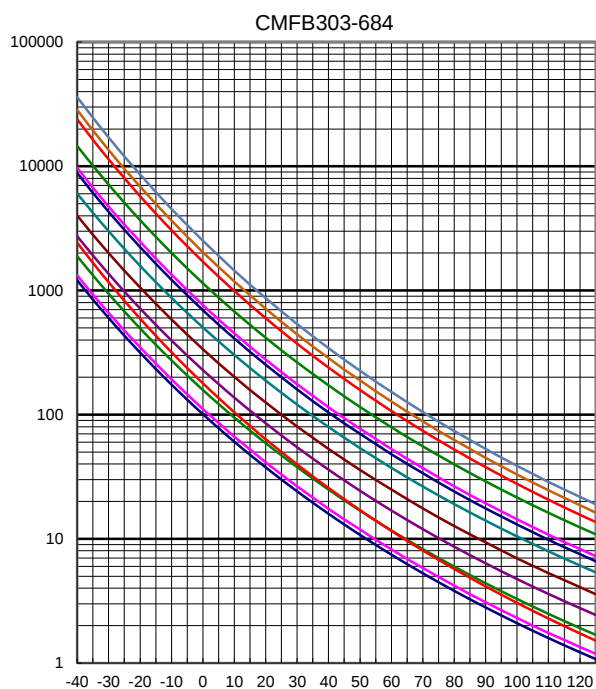
注：以上要求测试电性能的项目，应试验后在标准条件下放置 24 小时后测试。

Note: When there are questions concerning, measurement shall be made after 24±2hrs of recovery under the standard condition.

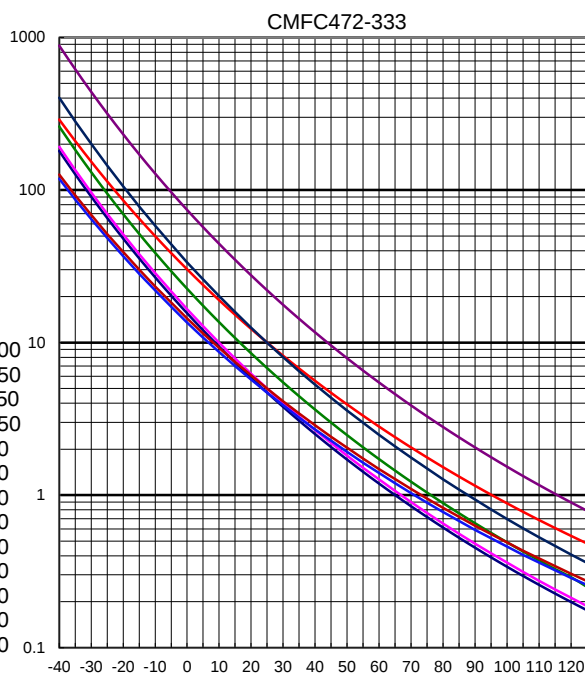
◆阻值温度特性曲线图

Resistance temperature Characteristic Curve

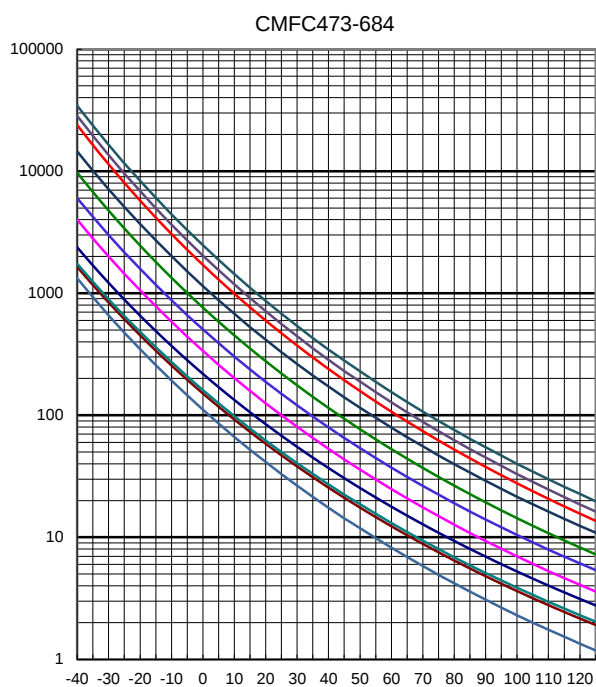




- 13.B684-4200
- 12.B564-4150
- 11.B474-4150
- 10.B334-4150
- 9.B224-4050
- 8.B204-4050
- 7.B154-3950
- 6.B104-3950
- 5.B683-3950
- 4.B473-3950
- 3.B503-3950
- 2.B333-3950
- 1.B303-3950



- 8.C223-3950
- 7.C103-3950
- 6.C103-3650
- 5.C502-3450
- 4.C472-3450
- 3.C682-3900
- 2.C502-3900
- 1.C472-3900



- 11.C684-4200
- 10.C564-4200
- 9.C474-4200
- 8.C334-4050
- 7.C224-4050
- 6.C154-3950
- 5.C104-3950
- 4.C683-3950
- 3.C503-3950
- 2.C473-3950
- 1.C333-3950

◆包装

Packaging

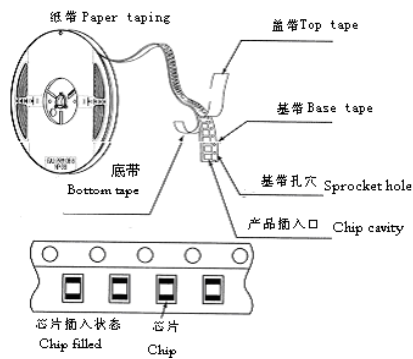
*包装数量

Packaging number

类型 SIZE	321611	201209	160808	100505
每卷数量 REEL	3000	4000	4000	10000
每盒数量 BOX	30000	40000	40000	100000
每箱数量 CASE	180000	240000	240000	600000

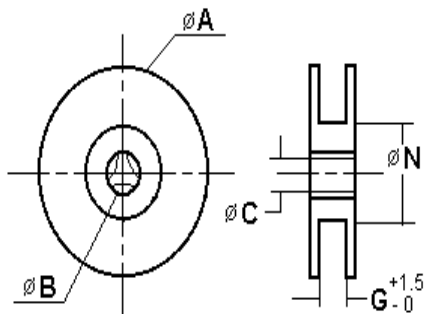
* 编带图

Taping drawings



* 卷盘尺寸

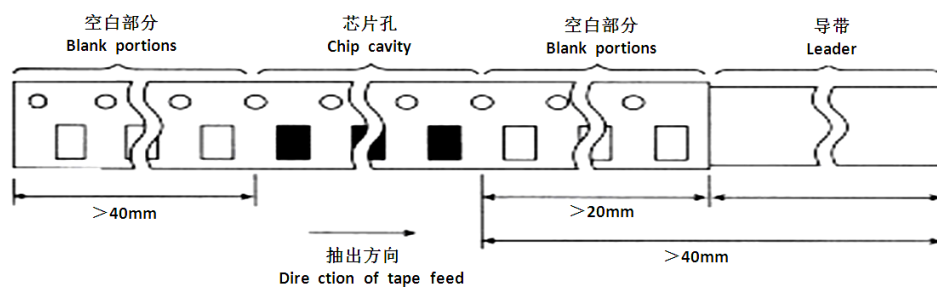
Reel dimensions (Unit: mm)



卷盘 Reel	A	B	C	N	G
CF-8	178 $\pm$ 2.0	22.0 $\pm$ 2.0	13.0 $\pm$ 1.0	60 $\pm$ 2.0	9.5 $\pm$ 2.0

* 导带及空格部分

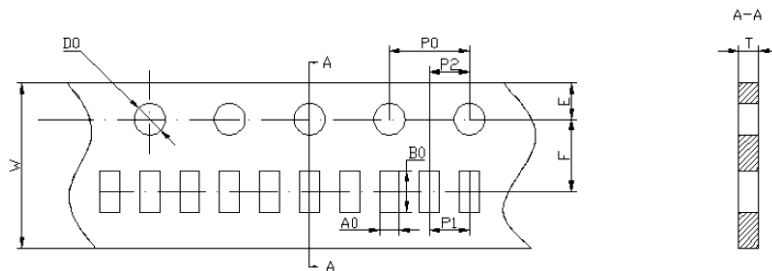
Leader and blank portion



*** 编带尺寸**

Taping dimensions (Unit: mm)

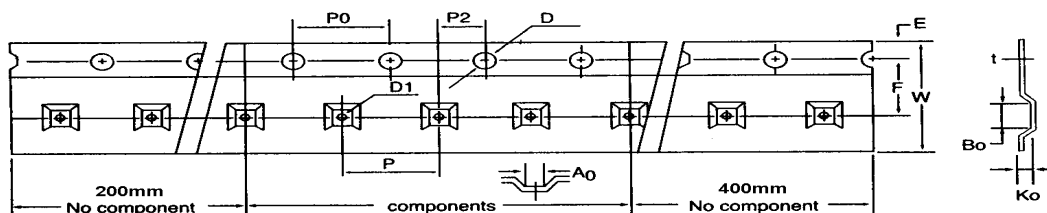
纸带 Paper tape



Part NO.	A0	B0	W	F	E	P1	P2	P0	D0	T
100505	0.59±0.10	1.12±0.10	8.00±0.20	3.50±0.10	1.75±0.20	2.00±0.10	2.00±0.10	4.00±0.20	1.55±0.10	0.60±0.10
160808	1.05±0.20	1.85±0.20	8.00±0.20	3.50±0.10	1.75±0.20	2.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
201209	1.45±0.20	2.35±0.20	8.00±0.20	3.50±0.10	1.75±0.20	2.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
321609	1.90±0.20	3.46±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10

塑料胶带

Embossed carrier



Part NO	W	P	E	F	D	D1	Po	Po10	P2	A0	B0	t	Ko
3216	8.0	4.0	1.75	3.50	1.50	1.00	4.0	40.0	2.0	1.88	3.50	0.22	1.27
	±0.2	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.20	±0.05	±0.10	±0.10	±0.05	±0.10

◆ 使用注意事项 Precautions For Use

***操作注意事项 OPERATING CONSIDERATIONS**

本产品的陶瓷元件为易碎材料制成，使用时务必小心不要施加过大压力或引起冲击。此类强力可能会造成产品破裂或破碎。

THE CERAMIC OF THIS PRODUCT IS FRAGILE, AND CARE MUSTBE TAKEN NOT TO LOAD AN EXCESSIVE PRESS - FORCE ORTO GIVE A SHOCK AT HANDLING.SUCH FORCES MAY CAUSE CRACKING OR CHIPPING.

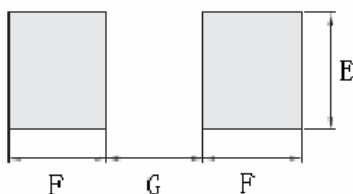
*** PC 板的设计 PCB DESIGN**

(1) 当片式NTCR被安装在PC板上后，所使用的焊料的量（焊盘的大小）会直接影响到片式NTCR的性能，因此在设计基板时，必须慎重考虑焊盘的大小和配置，这些对组成基板的焊料的量有着决定的作用，过量的焊料会影响到芯片耐机械应力的能力。

WHEN CHIP THERMISTORS ARE MOUNTED ON A PCB, THE AMOUNT OF SOLDER USED(SIZE OF FILLET) CAN DIRECTLY AFFECT THERMISTOR PERFORMANCE THEREFORE, WHEN DESIGN LAND- PATTERNS IT IS NECESSARY TO CONSIDER THE APPROPRIATE SIZE AND CONFIGURATION OF THE

SOLDER PADS, WHICH DETERMINES THE AMOUNT OF SOLDER NECESSARY TO FORM THE FILLETS. EXCESS SOLDER CAN AFFECT THE ABILITY OF CHIPS TO WITHSTAND MECHANICAL STRESS.

(2) 推荐最大焊盘尺寸 RECOMMENDED MAXIMUM DIMENSIONS (MM)



型号 SIZE	E	F	G
0402	0.60	0.60	0.50
0603	1.00	1.00	1.00
0805	1.40	1.20	1.00
1206	1.80	1.20	2.00

(3) 基板配置: 将片式 NTCR 安装在板上之后, 芯片将承受在下一加工过程中产生的机械应力, 出于这个原因, 在设计焊盘和片式 NTCR 的位置时, 应注意考虑将应力减少到最低点。

PATTERN CONFIGURATIONS: AFTER CHIP THERMISTOR HAVE BEEN MOUNTED ON THE BOARD, CHIPS CAN BE SUBJECT TO MECHANICAL STRESSES IN SUBSEQUENT MANUFACTURING PROCESS , FOR THIS REASON, PLANNING PATTERN CONFIGURATIONS AND THE POSITION OF SMD THERMISTORS SHOULD BE CAREFULLY PERFORMED TO MINIMIZE STRESS.

*自动安装应考虑到的问题 CONSIDERATIONS FOR AUTOMATIC PLACEMENT.

(1) 在将片式 NTCR 安装在 PC 板上时, 不能让其承受过量的冲击力。

EXCESSIVE IMPACT LOAD SHOULD NOT BE IMPOSED ON THE THERMISTOR WHEN MOUNTING ON THE PCB .

(2) 应定期对安装机器进行维护和检查。

THE MAINTENANCE AND INSPECTION OF THE MOUNTING DEVICES SHOULD BE CONDUCTED PERIODICALLY .

(3) 当 PC 板沿着接缝孔切割开时, 片式 NTCR 所受机械应力的的大小因使用的方法不同而不同。以下方法按应力从小到大进行排列: 推板、割裂、V 形凹槽、接缝孔。因此。任何理想的片式 NTCR 的布局必须考虑到 PC 板的分割方法。

WHEN BEATING PCB ALONG THEIR PERFORATIONS, THE AMOUNT OF MECHANICAL STRESS ON THE THERMISTOR CAN VARY ACCORDING TO THE METHOD USED .THE FOLLOWING METHODS ARE LISTED IN ORDER FROM LEAST STRESSFUL TO MOST STRESSFUL: PUSH-BACK, SLIT, V-GROOVING, AND PERFORATION. THUS, ANY IDEAL SMD THERMISTOR LAYOUT MUST ALSO CONSIDER THE PCB SPLITTING PROCEDURE.

*焊膏的印刷 PRINTING SOLDER PASTE

(1) 焊膏的印刷厚度建议在 150MM~200MM。

RECOMMENDABLE THICKNESS OF SOLDER PASTE PRINTING SHOULD FROM 150MM TO 200MM.

(2) 焊接后, 爬锡高度为 0.2MM 至本产品的厚度。

AFTER SOLDERING, THE SOLDER FILLET SHALL BE A HEIGHT FROM 0.2MM TO THE THICKNESS OF CHIP THERMISTOR.

(3) 过多的焊料将给本产品过大的机械应力, 这些应力将导致断裂或机械损伤, 也可能破坏产品的电性能。

TOO MUCH SOLDER GIVES TOO STRONG MECHANICAL STRESS TO CHIP THERMISTOR, SUCH STRESS MAY CAUSE CRACKING OR ANY MECHANICAL DAMAGE. AND ALSO, IT CAN DESTROY THE ELECTRICAL PERFORMANCE OF THIS PRODUCT.

[illegible]

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