

# SPECIFICATION FOR APPROVAL

## 承认书

客户名称 (CUSTOMER): Maritex

产品名称 (PRODUCT ITEM): NTC THERMISTOR

客户料号 (CUSTOMER PART NO.): \_\_\_\_\_

规格型号 (PART NO.): MF72-30D11 kink CP

文件编号 (FILE NO.): MF7213171

编制日期 (DATE): 2013-10-12

客户确认(CUSTOMER CONFIRM)	批准 (APPROVE)
<i>Please sign back when samples are approved, thanks!</i> <u>此承认书请在确认样品合格一周内回签, 谢谢!</u>	You Shuangqiao
	审核 (CHECK)
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## Product specification

## 产品技术规格

规格型号(PART NO.)	MF72-30D11
文件编号(FILE NO.)	APR-MF72-0029

Item	Symbol	Test condition	Normal	Unit
Resistance at 25°C	R <sub>25</sub>	T <sub>a</sub> =25±0.05°C P <sub>T</sub> ≤ 0.1mw	30 +- 20%	Ω
Max. steady current	I <sub>max</sub>		1.35	A
B value	B <sub>25/50</sub>	$B=LN \frac{R_{T1}}{R_{T2}} / (\frac{1}{T1} - \frac{1}{T2})$	3000+/-10%	k
Dissipation factor	σ	T <sub>a</sub> =25±0.5°C	≥15	mw/°C
Thermal time constant	τ	T <sub>a</sub> =25±0.5°C	≤52	sec
Isolating resistance	/	/	≥500	MΩ
Operating temperature range	/	/	-40-120° C	°C

### ■ Mechanical characteristics

Item	Technical requirement	Test condition and method/ standard
Solderability test	Soldering saturation should be over 95%	Put the terminal stained with softsolder in liquid of solder of 230±5°C for 2±0.5S. The distance between the body NTC bottom and liquid surface is 2-2.5mm. IEC60068-2-20 Ta /GB2423.28 Ta
Solder heat resistance test	No visible damage ΔR/R <sub>25</sub> ≤ ±2%	Put the terminal in the liquid of tin tank of 260±5 °C for 10±1S. The distance between NTC body bottom and liquid surface is 2-2.5mm. IEC60068-2-20 Tb/GB2423.28 Tb
Terminal tensile strength test	No peeling off ΔR/R <sub>25</sub> ≤ ±2%	Ua test: stretching force 20N for 10S; Ub test: bending at angle of 90 with strength of 5N, twice IEC60068-2-21 / GB2423.29 U test

### ■ Reliability test

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Steady Hygrothermal	At temperature of $40\pm 2^{\circ}\text{C}$ , relative humidity $93\pm 3\%$ , for $48\pm 2$ hours, then 1 hour at normal Environment	No visible damage, marking is clear, no puncture or overflash, isoating resistance $\geq 500\text{M}\Omega$ The biggest change in resistance values in the rate of less than $\pm 25\%$
Current surge	Thermistor allows the current surge of 2000 times, which is the Max. stable current, on 15 seconds	The biggest change in resistance values in the rate of less than $\pm 15\%$

**■ Resistance-temperature curve&voltage-current curve**



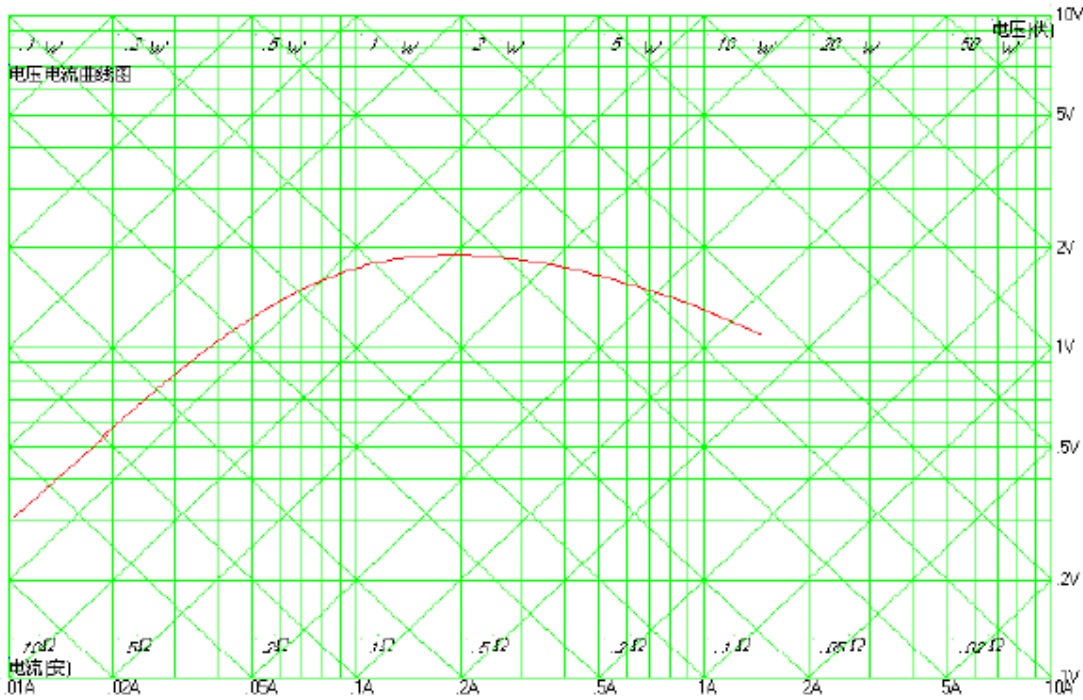
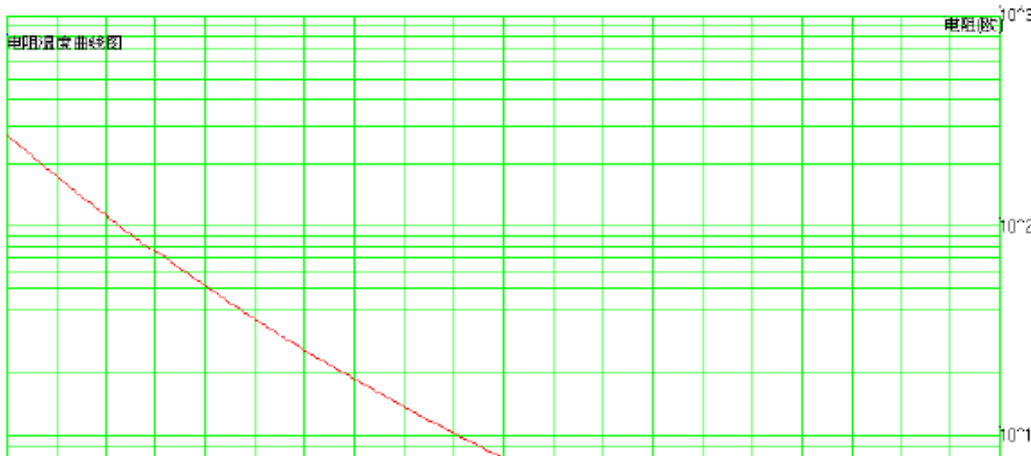
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Resistance-Temperature Curve

Resistance



附：图 2

Voltage-Current Curve

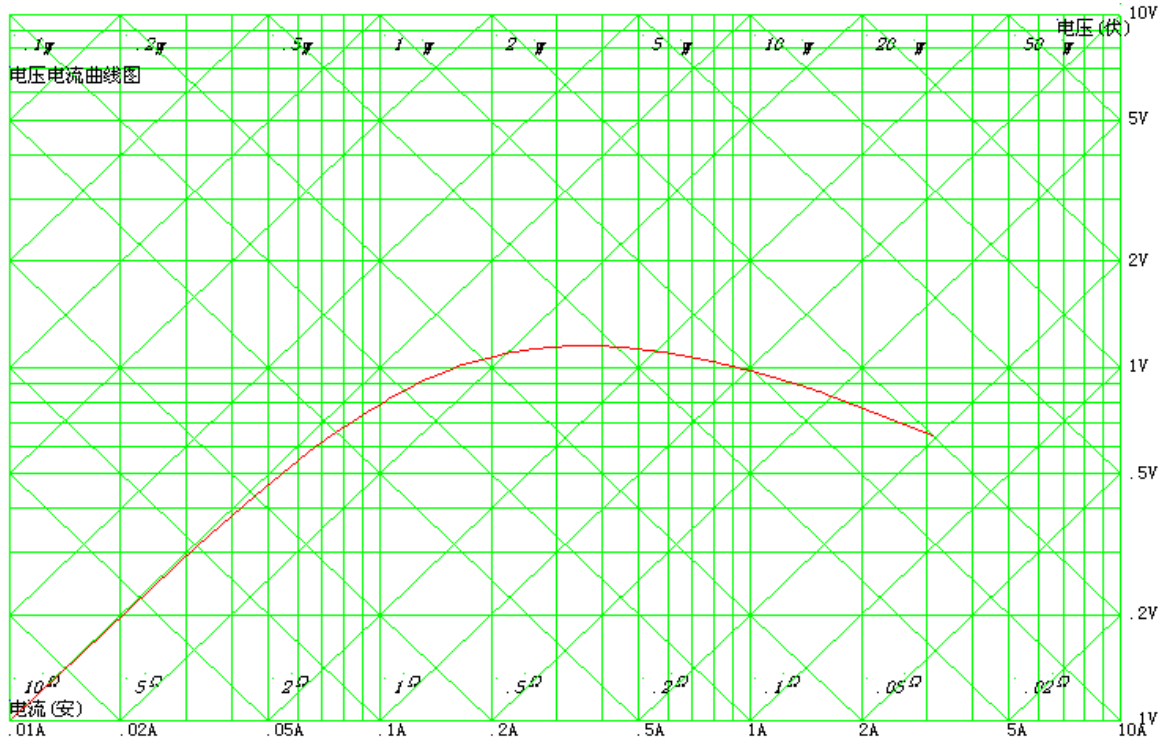
Voltage



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Current