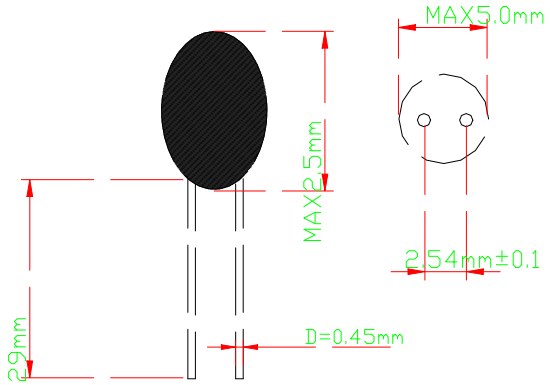
TE N05NK010.00f

NTC Thermistor

Product specification

1、Dimensions



mm

2、Model Code

NTC Thermistor	Epoxy	Resistance	Tolerance	B value	B TOL	B classes
		10KΩ	±1%	3486K	±1%	B 25/50

3、Electrical performance

Serial	Item	Symbol	Test condition	Min	Nor	Max	Unit
3-1.	25℃Resistance	R_{25}	Ta=25±0.05℃ P_T≦0.1mw	9.9	10	10.1	kΩ
3-2.	50℃Resistance	R_{50}	Ta=50±0.05℃ P_T≦0.1mw	/	4.047	/	kΩ
3-3.	B value	$B_{25/50}$	$B=LN\frac{R_{T1}}{R_{T2}}/(\frac{1}{T1}-\frac{1}{T2})$	3451	3486	3520	K
3-4.	Dissipation factor	σ	Ta=25±0.5℃	2.0	/	/	mw/℃
3-5.	Time constant	τ	Ta=25±0.5℃	/	/	15	sec
3-6.	Insulation resistance	/	500VDC	50	/	/	MΩ
3-7.	Temp range	/	/	-55	/	+125	℃

4、Mechanical Testing

Product specification

Iitem	technical requirements	Test conditions and methods
4-1.weldability	Terminal solder free flow and infiltration is good, the tin on the area of more than 95%	Immersed with terminal flux, temperature of 230 + 5 ℃ in the tin bath, tin surface from NTC ontology bottom 2-2.5 mm, lasts 2 + / - 0.5 S (see IEC60068-2-20 /GB2423.28)
4-2. Resistance to soldering Heat	No visible damage $\Delta R/R_{25} \leq \pm 2\%$	Terminal in temperature for 260 + 5 ℃ in the tin bath, tin surface from NTC ontology for 5 + 1 s bottom 5 mm (see IEC60068-2-20 test for Tb/GB2423.28 Tb)
4-3.Terminals Strength	shedding-free $\Delta R/R25 \leq 2\%$	Test Ua: pull 5 N for 10 s (see IEC60068-2-21 / GB2423.29 U test)

5、Reliability Test

serial	Item	technical requirements	Test conditions and methods
5-1.	high-temperature test	$\Delta R/R_{25} \leq \pm 2\%$	125±5℃，power on 1000±24h，DC0.2mA （see IEC60068-2-2/GB2423.2 test）
5-2.	low temperature test	$\Delta R/R_{25} \leq \pm 2\%$	-55±5℃，power on 1000±24h，DC0.2mA （see IEC60068-2-1/GB2423.1 test）
5-3.	Humidity test	$\Delta R/R_{25} \leq \pm 2\%$	40±2℃,90%-95%RH placed 100±24h （see IEC60068-2-3/GB2423.3 test）
5-4.	The temperature of hot and cold cycling test	$\Delta R/R_{25} \leq \pm 2\%$	–55℃×30min→80℃×5min→125℃×30min→80℃×5min，cycling 5 time （see IEC60068-2-14/GB2423.22 test）

6、Notes

Product lead cut into required length, pay attention to the minimum length ≧ 5 mm.