Ao littel Technology Co.,Ltd.



SPECIFICATION FOR APPROVAL

技术规格确认书

NXP Semiconductors KTY83/110 Replacement SOD-68 Limit Axial PTC Thermistor 1KOhm For Temperature Sensor

客户名称 Customer				
产品类型 Product Model	PTC Thermistor			
型号规格 Part Number	LPT-KTY83-110F			
文控编号 Specification file No.	P-1712052B			
版本号 Version	V1	日期 Date	2017.12.01	

Mfg.	DES.	СНК.	АРР.
Cust.			

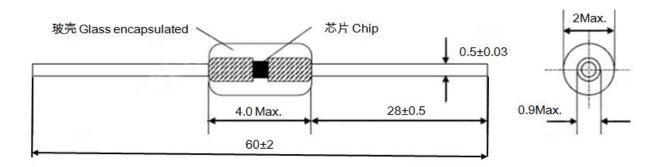
This Specification indicates the parameters, electrical properties, test condition, structure and dimension of the NTC Thermistors and Temperature Sensors manufactured by Ao littel. it is sincerely for your confirmation. Confirm got the spec and accept as our company's warehouse accept standard.

Any doubt, please contact us in due course, or if you change the usage of the products, or if the operational environment changed evidently, please inform us.

www.aolittel.com eric.lye@aolittel.com

Date	Version	Revise Content	Make	Approval
日期	版本号	修订内容	制作	批准
2017.12.01	V1	First custom	HD CHENG	DZ LING

1. Dimension (Unit: mm)



2、Material explanation

NO	COMPONENT	MATERIAL AND SPECIFICATIONS	Q'TY	REMARK
2-1.	Tinned Dumet Wire	Copper-Clad Ni-Fe 0.5mm	2	
2-2.	Element	Chip (Silicon)	1	
2-3.	Housing	OD Ф2.0mm _{max} , ID Ф0.8±0.05mm	1	

3、Electric Performances

NO	Item	Sign	Test Conditions	Min.	Normal value	Max.	Unit
3-1.	Resistance at 25°C	R25	Ta=25±0.05℃	990	1000	1010	Ω
3-2.	Resistance at 100℃	R100	Ta=100±0.05℃	1	1	/	Ω
3-3.	Dissipation factor	σ	Ta=25±0.5℃	1.5	1	1	mw/℃
3-4.	Time constant	Т	(In still air)	1	1	17	sec
3-5.	Insulation resistance	1	100V DC	100	1	1	ΜΩ
3-6.	Maximum operating current	I _{max}	I	1	/	8	mA
3-7.	Rated operating current	I _N	1	/	2	/	mA
3-8.	Rated Power	P_{max}	1	1	1	50	mW
3-9.	Operating temp.range	T _A	1	-55	1	+150	C

4、R-T Conversion Table

Centigrade	Centigrade Fahrenheit T/℃			LPT-KTY83-110F		DR	
(℃)	(T)	%/ (K)		Resistance	(Ω)	(K)	
			Min.	Center	Max.		
-55	-67	0.99	475	490	505	±3.02	
-50	-58	0.98	500	515	530	±2.92	
-40	-40	0.96	552	567	582	±2.74	
-30	-22	0.93	609	624	638	±2.55	
-20	-4	0.91	669	684	698	±2.35	
-10	14	0.88	733	747	761	±2.14	
0	32	0.85	802	815	828	±1.91	
10	50	0.83	874	886	898	±1.67	
20	68	0.80	950	961	972	±1.41	
25	77	0.79	990	1000	1010	±1.27	
30	86	0.78	1029	1040	1051	±1.39	
40	104	0.75	1108	1122	1136	±1.64	
50	122	0.73	1192	1209	1225	±1.91	
60	140	0.71	1278	1299	1319	±2.19	
70	158	0.69	1369	1392	1416	±2.49	
80	176	0.67	1462	1490	1518	±2.8	
90	194	0.65	1559	1591	1623	±3.12	
100	212	0.63	1659	1696	1733	±3.46	
110	230	0.61	1762	1805	1847	±3.83	
120	248	0.58	1867	1915	1963	±4.33	
125	257	0.55	1919	1970	2020	±4.66	
130	266	0.52	1970	2023	2077	±5.07	
140	284	0.45	2065	2124	2184	±6.28	
150	302	0.35	2145	2211	2277	±8.55	

5、Packing Specification

B (Bulk) Quantity of each polybag (pcs)	TA(Taping) Quantity of each inter-box (pcs)
500	5000

6. Storage Conditions

6.1 Storage Temperature: -10° C \sim +40 $^{\circ}$ C

6.2 Relative Humidity: ≤ 75% RH

6.3 Keep products away from corrosive such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderabilit.

6.4 The products can be used in two years under storage co

7、Notice

Information contained herein is intended to provide a product description only, has been carefully reviewed and is believed to be accurate. However, Ao littel, or anyone on its behalf, no responsibility or liability is assumed for any errors or inaccuracies.

Ao littel reserves the right to make changes without further notice to any product herein. And makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose. Ao littel assumes no any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages.

Ao littel does not convey any license under its patent rights nor the rights of others.