



10K Waterproof ABS Plastic Shell NTC Negative Temperature Probe B3950 Fish Tank Water Temperature Sensor

Our Product Introduction

Basic Information

- Place of Origin: Dong Guang
- Brand Name: LinKun
- Certification: UL ROHS
- Model Number: ABS plastic waterproof temperature sensor
- Minimum Order Quantity: 500
- Price: Negotiation
- Packaging Details: Packed in OPP Bag firstly, and then reinforced with Cartons for outer packing
- Supply Ability: 100000

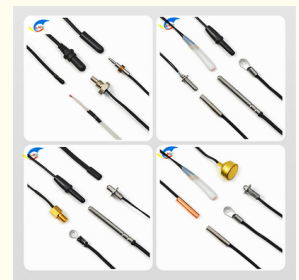


Product Specification

- Model: 103F3950
- Sensor Type: NTC Thermistor
- Temperature Measurement Range: -50~125°C
- Package/housing: ABS Plastic
- Resistance Value: Custom
- Lead Wire: UL 28#2464 (2.0OD White Sheath Cable)
- Theory: Resistance Sensor
- Resistance Tolerance: F:±1%, G:±2%, H:±3%, J:±5%
- Highlight: Fish Tank Water Temperature Sensor ,
10K NTC Temperature Sensor ,
ABS Plastic Shell NTC Temperature Sensor



More Images

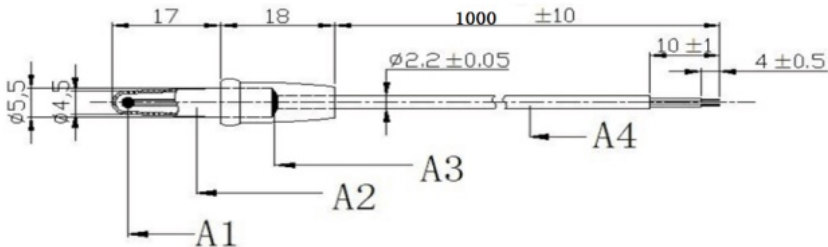


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Prodct specilication



1.Dimensions (Unit:mm),



2.Form facto

Serial number	Material name	Specification/Model	Quantit	Remark
A1	Shell	ABS plastic shell cap (white)	1pcs	
A2	Thermistor	MF52A-103F3435	1pcs	
A3	Epoxy potting compound	DB potting soft material (white)		
A4	Tail end	UL 28#2464 (2.0OD white sheath cable)	1pcs	

3.Electrical properties

Serial number	Project	Symbol	Test conditions	Minimum value	Normal value	Maximum value	unit
3-1	Resistance value at 25°C	R_{25}	$T_a=25\pm0.05^{\circ}\text{C}$ $P_t\leq0.1\text{mW}$	9.9	10	10.1	kΩ
3-2	Resistance value at 50°C	R_{50}	$T_a=50\pm0.05^{\circ}\text{C}$ $P_t\leq0.1\text{mW}$	/	4.1605	/	kΩ
3-3	B value	$B(25/50)$	$B = \frac{1}{\frac{1}{R_{T1}} - \frac{1}{R_{T2}}} \times \frac{1}{\frac{1}{T_1} - \frac{1}{T_2}}$		3435		k

3-4	Dissipation coefficient		Ta=25±0.5°C	5	/	/	mw/°C
3-5	Time constant		Ta=25±0.5°C	/	/	15	sec
3-6	Insulation resistance	/	500Vdc	100	/	/	
3-7	Withstand voltage test	/	1500V AC, I=0.5mA	60	/	/	s
3-8	Using temperature range	/		-15	/	+80	°C

4. Reliability test

Serial number	Project	Technical requirements	Test conditions and methods
4-1	High temperature test	R/R ≤±3%	100±5°C, power on for 1000±24h, DCO.2mA
4-2	Low temperature test	R/R ≤±3%	-30±5°C, power on for 1000±24h, DCO.2mA
4-3	Temperature hot and cold cycle test	R/R ≤±3%	2°C×30→normal temperature×10min→100°C water×3min→normal temperature×10min, 10 cycles in total
4-4	Moisture resistance test	R/R ≤±3%	55±2°C, 90%-95%RH environment for 1000±24h

5. Mechanical properties

Serial number	Project	Technical requirements	Test conditions and methods
5-1	Tensile test	Resin, no deformation, no damage	Load 10n(3F) for 1 minute
		Terminals, no deformation, no damage	Load 10n(3F) for 1 minute
5-2	Land test	No visible damage	At a height of 1 meter, let the product do free fall and fall onto a 10mm thick oak board, 5 times

6. Storage method

6.1 The stacking height of each stack during storage and transportation shall not exceed 4 boxes.

6.2 Any method of transportation is allowed, but direct or indirect exposure to rain and snow and mechanical damage should be avoided.

6.3 The product should be stored in an environment with a temperature of 10°C/+40°C and a relative humidity of no more than 80%. The surrounding environment should not contain acidic, alkaline substances, corrosive gases or radiation sources.

TEMPERATURE VS RESISTANCE TABLE

Resistance 10k Ohms at 25deg. C

B Value 3435K at 25/85 deg. C

Temp. (deg. C)	R (k Ohms)	Temp. (deg. C)	R (kOhms)	Temp. (deg. C)	R (kOhms)	Temp. (deg. C)	R (kOhms)
-20	69.6931	62	2.8419	144	0.3517	226	0.0817
-19	66.3291	63	2.7559	145	0.3444	227	0.0805
-18	63.1485	64	2.6729	146	0.3372	228	0.0793
-17	60.1402	65	2.5929	147	0.3303	229	0.0781
-16	57.2939	66	2.5156	148	0.3235	230	0.0770
-15	54.5998	67	2.4410	149	0.3169	231	0.0759
-14	52.0490	68	2.3690	150	0.3104	232	0.0748
-13	49.6330	69	2.2994	151	0.3042	233	0.0737
-12	47.3439	70	2.2322	152	0.2980	234	0.0726
-11	45.1743	71	2.1673	153	0.2920	235	0.0716
-10	43.1172	72	2.1046	154	0.2862	236	0.0706
-9	41.1663	73	2.0440	155	0.2805	237	0.0695
-8	39.3153	74	1.9854	156	0.2749	238	0.0686
-7	37.5587	75	1.9288	157	0.2695	239	0.0676
-6	35.8910	76	1.8740	158	0.2642	240	0.0666
-5	34.3074	77	1.8211	159	0.2590	241	0.0657
-4	32.8029	78	1.7699	160	0.2540	242	0.0648
-3	31.3734	79	1.7204	161	0.2490	243	0.0639
-2	30.0145	80	1.6725	162	0.2442	244	0.0630
-1	28.7225	81	1.6262	163	0.2395	245	0.0621
0	27.4936	82	1.5813	164	0.2349	246	0.0613

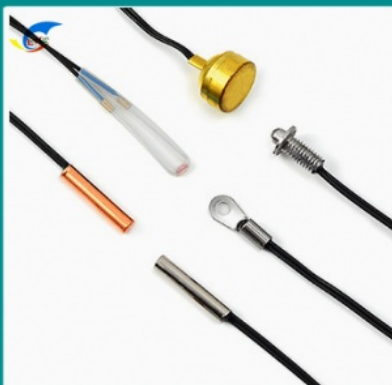
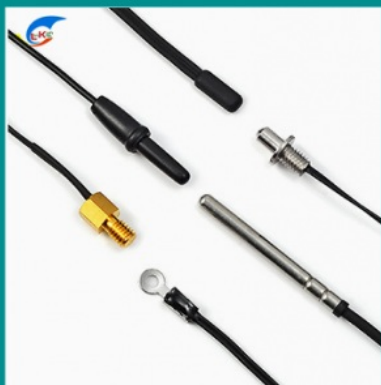
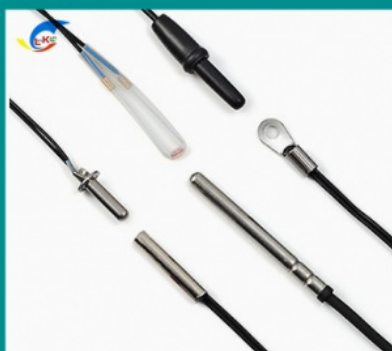
1	26.3245	83	1.5379	165	0.2304	247	0.0605
2	25.2119	84	1.4959	166	0.2260	248	0.0596
3	24.1527	85	1.4553	167	0.2218	249	0.0588
4	23.1442	86	1.4159	168	0.2176	250	0.0580
5	22.1835	87	1.3778	169	0.2135	251	0.0573
6	21.2682	88	1.3408	170	0.2095	252	0.0565
7	20.3959	89	1.3051	171	0.2056	253	0.0557
8	19.5644	90	1.2704	172	0.2018	254	0.0550
9	18.7714	91	1.2368	173	0.1980	255	0.0543
10	18.0151	92	1.2043	174	0.1944	256	0.0536
11	17.2935	93	1.1728	175	0.1908	257	0.0529
12	16.6048	94	1.1422	176	0.1874	258	0.0522
13	15.9475	95	1.1126	177	0.1839	259	0.0515
14	15.3198	96	1.0839	178	0.1806	260	0.0508
15	14.7203	97	1.0560	179	0.1774	261	0.0502
16	14.1475	98	1.0290	180	0.1742	262	0.0495
17	13.6003	99	1.0028	181	0.1711	263	0.0489
18	13.0772	100	0.9774	182	0.1680	264	0.0483
19	12.5771	101	0.9527	183	0.1650	265	0.0477
20	12.0988	102	0.9288	184	0.1621	266	0.0471
21	11.6413	103	0.9055	185	0.1593	267	0.0465
22	11.2037	104	0.8830	186	0.1565	268	0.0459
23	10.7848	105	0.8611	187	0.1538	269	0.0453
24	10.3839	106	0.8399	188	0.1511	270	0.0447
25	10.0000	107	0.8193	189	0.1485	271	0.0442
26	9.6324	108	0.7992	190	0.1459	272	0.0437
27	9.2802	109	0.7798	191	0.1434	273	0.0431
28	8.9428	110	0.7609	192	0.1410	274	0.0426
29	8.6195	111	0.7425	193	0.1386	275	0.0421
30	8.3096	112	0.7247	194	0.1362	276	0.0416
31	8.0124	113	0.7074	195	0.1339	277	0.0411
32	7.7275	114	0.6906	196	0.1317	278	0.0406
33	7.4541	115	0.6742	197	0.1295	279	0.0401
34	7.1919	116	0.6583	198	0.1273	280	0.0396
35	6.9403	117	0.6429	199	0.1252	281	0.0391
36	6.6987	118	0.6278	200	0.1231	282	0.0387
37	6.4669	119	0.6132	201	0.1211	283	0.0382
38	6.2442	120	0.5990	202	0.1191	284	0.0378
39	6.0304	121	0.5852	203	0.1172	285	0.0373
40	5.8250	122	0.5718	204	0.1153	286	0.0369
41	5.6276	123	0.5587	205	0.1134	287	0.0365
42	5.4380	124	0.5460	206	0.1116	288	0.0361
43	5.2557	125	0.5336	207	0.1098	289	0.0356
44	5.0804	126	0.5216	208	0.1080	290	0.0352
45	4.9119	127	0.5098	209	0.1063	291	0.0348
46	4.7498	128	0.4984	210	0.1046	292	0.0344
47	4.5939	129	0.4873	211	0.1029	293	0.0340
48	4.4439	130	0.4765	212	0.1013	294	0.0337
49	4.2995	131	0.4660	213	0.0997	295	0.0333
50	4.1605	132	0.4558	214	0.0982	296	0.0329
51	4.0268	133	0.4458	215	0.0967	297	0.0326
52	3.8980	134	0.4361	216	0.0952	298	0.0322
53	3.7739	135	0.4266	217	0.0937	299	0.0318
54	3.6544	136	0.4174	218	0.0922	300	0.0315
55	3.5393	137	0.4084	219	0.0908		
56	3.4284	138	0.3997	220	0.0895		
57	3.3215	139	0.3911	221	0.0881		
58	3.2185	140	0.3828	222	0.0868		
59	3.1191	141	0.3747	223	0.0855		
60	3.0234	142	0.3669	224	0.0842		
61	2.9310	143	0.3592	225	0.0829		

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Recommended products:

- ★ Professional quality
- ★ Manufacturing factory
- ★ Independent research and development
- ★ Customized according to drawings and samples





Widely used

Customized various structures and parameters

Multiple scenarios

Smart home appliance applications



Electric kettles



Air fryers



Health pots

Office equipment applications



Printers



Copiers



Projectors

Widely used



Application areas: Widely used in temperature measurement and control of thermostats, aquarium machines, water pumps, household air conditioners, car air conditioners, refrigerators, water heaters, water dispensers, water washing machines, thermostats, boilers and other products.

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