

This specification provides three crystal Hefei Electronics Co., Ltd. Production

MF5A-3-type NTC thermistor product performance, test conditions, size description, please confirm your company.

On the specification of doubt, please contact us promptly.

Change the use of your company uses, the role of method, please contact us.

1. Volume No: *Q/SJ06.02.X023.01.10* 

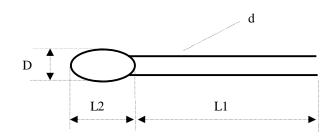
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## 1. Size and device characteristics



Dmax	L2max	d	L1	
3. Omm	4mm	$0.4 \pm 0.05 \text{mm}$	$25 \pm 5$ mm	

Encapsulation materials: epoxy resin Lead Material: Tinned copper wire

Component Color: Black

Q/SJ06. 01. B. 103-3950

Q/ J.	4/3300.01. B. 103-3730								
	Item	Symbol	Test Conditions	Min.	Nor.	Max.	Units		
1	25℃ resistance	R <sub>25</sub>	$T_a$ =25 °C $\pm$ 0. 05 °C $P_T$ $\leqslant$ 0. 1mw	44.65	47	49. 35	ΚΩ		
2	B value	В	_	3871	3950	4029	K		
3	Dissipation coefficient	σ	T <sub>a</sub> =25°C ±0.5°C	2.5	/	/	mw∕ °C		
4	Time constant	τ	T <sub>a</sub> =25℃ ±0.5℃	/	/	10	sec		



## 5. Use of

	Item	Range	Units
1	Temperature	-30℃~+150℃	$^{\circ}$
2	Maximum current	1.0	mA
3	Normal current	200	μA

# 6. Material properties

## 6.1 Lead tensile test

Test conditions	Test Results		
Fixed resistor side, hanging 0.5kg Stretch for 10 seconds	No cracking, breakage	OK	

## 6.2 Lead bend test

Test conditions	Test Results			
Fixed resistor side, hanging 0.5kg Bent so that leads 90°	No cracking, breakage	OK		

# 7. Reliability Test

Item	Test Conditions	Range	
Toot the temperature	-40°C × 20mi n	25℃	
Test the temperature reproducibility	+110°C × 20mi n	25℃	± 2%
reproducibility	Repeated 5 times		
Drift test	1. 0mA× 40 Days		± 2%

## 8. Points to Note

## 9. Resistance-temperature characteristics of the table

R-T TABLE

R25°C= 10.00kΩ B25/50°C °C=3950K

<b>T()</b> □	R(kΩ)	<b>T()</b> □	R(kΩ)	Τ()□	R(kΩ)	<b>T()</b> □	R(kΩ)	<b>T()</b> □	R(kΩ)
-30	184.9	12	18.41	54	3.088	96	0.7748	138	0.2594
-29	174.5	13	17.53	55	2.976	97	0.7525	139	0.2533
-28	164.8	14	16.70	56	2.869	98	0.7309	140	0.2473
-27	155.5	15	15.91	57	2.767	99	0.7101	141	0.2416
-26	146.9	16	15.17	58	2.668	100	0.6900	142	0.2359
-25	138.7	17	14.47	59	2.574	101	0.6710	143	0.2305
-24	131.0	18	13.80	60	2.484	102	0.6526	144	0.2251
-23	123.7	19	13.17	61	2.397	103	0.6349	145	0.2200
-22	116.9	20	12.57	62	2.314	104	0.6177	146	0.2149
-21	110.5	21	12.00	63	2.234	105	0.6011	147	0.2101
-20	104.4	22	11.46	64	2.157	106	0.5850	148	0.2053
-19	98.68	23	10.95	65	2.083	107	0.5694	149	0.2007
-18	93.29	24	10.46	66	2.012	108	0.5543	150	0.1962
-17	87.78	25	10.00	67	1.944	109	0.5397	151	0.1919
-16	82.59	26	9.566	68	1.879	110	0.5255	152	0.1878
-15	77.75	27	9.154	69	1.816	111	0.5118	153	0.1838
-14	73.31	28	8.762	70	1.756	112	0.4985	154	0.1799
-13	69.28	29	8.389	71	1.698	113	0.4856	155	0.1761
-12	65.51	30	8.034	72	1.642	114	0.4731	156	0.1724
-11	62.00	31	7.697	73	1.588	115	0.4610	157	0.1688
-10	58.67	32	7.376	74	1.537	116	0.4492	158	0.1653
-9	55.49	33	7.070	75	1.487	117	0.4378	159	0.1619
-8	52.49	34	6.779	76	1.439	118	0.4268	160	0.1585
-7	49.67	35	6.502	77	1.393	119	0.4160	161	0.1553
-6	47.01	36	6.237	78	1.349	120	0.4056	162	0.1521
-5	44.50	37	5.986	79	1.306	121	0.3955	163	0.1490
-4	42.14	38	5.745	80	1.265	122	0.3857	164	0.1460
-3	39.92	39	5.516	81	1.226	123	0.3762	165	0.1431
-2	37.82	40	5.298	82	1.187	124	0.3670	166	0.1402
-1	35.84	41	5.089	83	1.151	125	0.3580	167	0.1374
0	33.97	42	4.890	84	1.115	126	0.3490	168	0.1347
1	32.22	43	4.700	85	1.081	127	0.3403	169	0.1320
2	30.56	44	4.518	86	1.048	128	0.3318	170	0.1294
3	29.01	45	4.345	87	1.016	129	0.3235	171	0.1269
4	27.54	46	4.179	88	0.9850	130	0.3155	172	0.1244
5	26.15	47	4.021	89	0.9553	131	0.3078	173	0.1220
6	24.85	48	3.869	90	0.9266	132	0.3003	174	0.1196
7	23.61	49	3.724	91	0.8990	133	0.2929	175	0.1173
8	22.45	50	3.586	92	0.8723	134	0.2858	176	0.1150
9	21.35	51	3.453	93	0.8466	135	0.2789	177	0.1128
10	20.31	52	3.326	94	0.8218	136	0.2723	178	0.1106
11	19.33	53	3.204	95	0.7979	137	0.2658	179	0.1084