

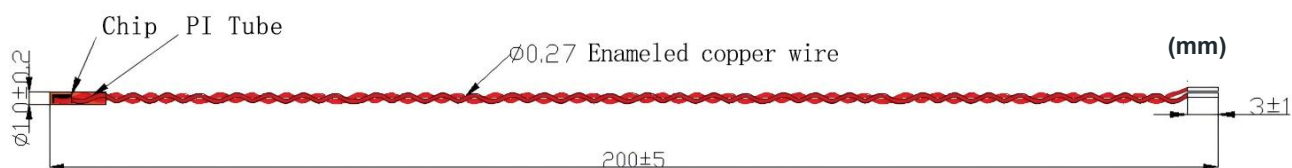
1.0mm 2.252K B3935 1%

NTC Thermistor

PRODUCT MANUAL

Striving for the Bright Future of Precision Optoelectronic Measurement.

01 Outline and Dimensions



Construction / Materials: PI tube (polyimide tubing) housing with enameled copper lead wires.

02 Specifications

Parameter	Value
Nominal Zero-Power Resistance R_{25}	$2.252 \pm 1\% K\Omega$
$B_{25/50}$ Value	$3935 \pm 1\% K$
Dissipation Constant	$\geq 0.5 mW/^{\circ}C$
Thermal Time Constant	$\leq 6.5 S$
Temperature Measurement Range	$-25 \sim +125^{\circ}C$
Operating Temperature Range	$-40 \sim +300^{\circ}C$
Insulation Resistance	$\geq 10 M\Omega$

03 Resistance-Temperature Table

$R_{25}=2.252K\Omega$ Tolerance:±1%		$B_{25/50}=3935K$ Tolerance:±1%	
Temperature($^{\circ}C$)	Resistance($K\Omega$)	Temperature($^{\circ}C$)	Resistance($K\Omega$)
-25	30.82654	51	0.77987
-24	29.04127	52	0.75111
-23	27.37258	53	0.72356
-22	25.81397	54	0.69718
-21	24.35920	55	0.67190
-20	23.00231	56	0.64767
-19	21.73760	57	0.62444
-18	20.55963	58	0.60218

-17	19.46320	59	0.58083
-16	18.44338	60	0.56034
-15	17.49547	61	0.54069
-14	16.61503	62	0.52184
-13	15.79781	63	0.50374
-12	15.04000	64	0.48636
-11	14.33802	65	0.46968
-10	12.47250	66	0.45365
-9	11.81980	67	0.43826
-8	11.20400	68	0.42347
-7	10.62290	69	0.40925
-6	10.07430	70	0.39559
-5	9.55639	71	0.38245
-4	9.06725	72	0.36982
-3	8.60521	73	0.35767
-2	8.16865	74	0.34598
-1	7.75608	75	0.33474
0	7.36608	76	0.32392
1	7.00101	77	0.31350
2	6.65606	78	0.30347
3	6.33002	79	0.29381
4	6.02176	80	0.28451
5	5.73020	81	0.27556
6	5.45437	82	0.26693
7	5.19333	83	0.25861
8	4.94621	84	0.25059
9	4.71221	85	0.24286
10	4.49055	86	0.23540
11	4.28052	87	0.22820
12	4.08146	88	0.22126
13	3.89274	89	0.21456
14	3.71377	90	0.20811

15	3.54398	91	0.20188
16	3.38288	92	0.19587
17	3.22997	93	0.19007
18	3.08478	94	0.18447
19	2.94691	95	0.17906
20	2.81593	96	0.17385
21	2.69147	97	0.16881
22	2.57317	98	0.16394
23	2.46070	99	0.15924
24	2.35374	100	0.15469
25	2.25200	101	0.15030
26	2.15530	102	0.14605
27	2.06331	103	0.14194
28	1.97576	104	0.13797
29	1.89242	105	0.13413
30	1.81306	106	0.13041
31	1.73748	107	0.12682
32	1.66547	108	0.12334
33	1.59684	109	0.11998
34	1.53143	110	0.11673
35	1.46906	111	0.11359
36	1.40957	112	0.11055
37	1.35282	113	0.10761
38	1.29867	114	0.10477
39	1.24699	115	0.10202
40	1.19764	116	0.09936
41	1.15052	117	0.09679
42	1.10550	118	0.09430
43	1.06250	119	0.09189
44	1.02140	120	0.08956
45	0.98211	121	0.08730
46	0.94455	122	0.08511

47	0.90863	123	0.08299
48	0.87426	124	0.08094
49	0.84138	125	0.07895
50	0.80991		

Version Change Log

Version	Change description	Change date	Reviewed by
1.0.0	Initial version	2026/9/2	WYR

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Innovation Creates Value;
Sharing Brings People Together;**

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