



## Shenzhen Global Technology Co., Ltd

## NTC temperature sensor thermistor 10K, 1 meter lead

Model: P-NTC-10K / 181021

## NTC Technical Data

Thermal time Constant	12 sec. max	
Dissipation Coefficient	5mW/°C	
Insulation Resistance	100MΩ	measured in water 500VDC
Withstand voltage	2 sec. No damage	AC 1800V, Current 1mA
Working Temperature	-20°C ~ 105°C	
<b>Mechanical Resistance</b>		
Item	spec	Test condition
Pulling Force test	No Damage or deformed	Load 9.8N/1min.
Drop test		Height 1m, 5 drops
<b>Reliability Test</b>		
Temperature circulating	Resistance at B value should be within 2% after this test. No damage or deform	-20°C = 10 min, 25°C = 2 min, 80°C = 1 min. 500 cycles
High Temperature		test at 80°C for 1000 hours
Low Temperature		test at -°C for 1000 hours
Humidity		test at 65°C humidity 90% ~ 95% for 1000 hours

T	R	T	R	T	R	T	R
-40	340.9281	+3	28.1229	+46	4.1887	+89	0.9372
-39	318.8772	+4	26.7496	+47	4.0287	+90	0.9086
-38	298.3978	+5	25.4513	+48	3.8758	+91	0.8811
-37	279.3683	+6	24.2234	+49	3.7294	+92	0.8545
-36	261.6769	+7	23.0618	+50	3.5899	+93	0.8289
-35	245.2212	+8	21.9625	+51	3.4553	+94	0.8042
-34	229.9072	+9	20.9218	+52	3.3269	+95	0.7803
-33	215.6488	+10	19.9364	+53	3.2039	+96	0.7572
-32	202.3666	+11	19.0029	+54	3.0862	+97	0.7350
-31	189.9878	+12	18.1184	+55	2.9733	+98	0.7135
-30	178.4456	+13	17.2800	+56	2.8652	+99	0.6927
-29	167.6783	+14	16.4852	+57	2.7616	+100	0.6727
-28	157.6292	+15	15.7313	+58	2.6622	+101	0.6533
-27	148.2460	+16	15.0161	+59	2.5669	+102	0.6346
-26	139.4807	+17	14.3375	+60	2.4755	+103	0.6165
-25	131.2888	+18	13.6932	+61	2.3879	+104	0.5990
-24	123.6294	+19	13.0815	+62	2.3038	+105	0.5821
-23	116.4648	+20	12.5005	+63	2.2231		
-22	109.7600	+21	11.9485	+64	2.1456		
-21	103.4829	+22	11.4239	+65	2.0712		
-20	97.6037	+23	10.9252	+66	1.9998		
-19	92.0947	+24	10.4510	+67	1.9312		
-18	86.9305	+25	10.0000	+68	1.8653		
-17	82.0877	+26	9.5709	+69	1.8019		
-16	77.5442	+27	9.1626	+70	1.7411		
-15	73.2798	+28	8.7738	+71	1.6826		
-14	69.2759	+29	8.4037	+72	1.6264		
-13	65.5149	+30	8.0512	+73	1.5723		
-12	61.9809	+31	7.7154	+74	1.5203		
-11	58.6587	+32	7.3954	+75	1.4703		
-10	55.5345	+33	7.0904	+76	1.4222		
-9	52.5954	+34	6.7996	+77	1.3759		
-8	49.8294	+35	6.5223	+78	1.3313		
-7	47.2253	+36	6.2577	+79	1.2884		
-6	44.7727	+37	6.0053	+80	1.2471		
-5	42.4620	+38	5.7645	+81	1.2073		
-4	40.2841	+39	5.545	+82	1.1690		
-3	38.2307	+40	5.3150	+83	1.1321		
-2	36.2940	+41	5.1053	+84	1.0965		
-1	34.4668	+42	4.9050	+85	1.0623		
0	32.7421	+43	4.7136	+86	1.0293		
+1	31.1138	+44	4.5307	+87	0.9974		
+2	29.5759	+45	4.3558	+88	0.9667		

