

SMD NTC Chip Thermistor

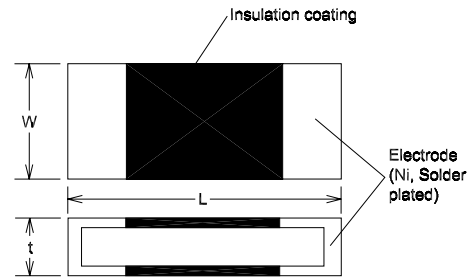
N7 Series



Applications:

Temperature Compensation
 Temperature Measurement
 Telecommunications
 Battery Pack

Consumer Appliances
 Industrial Equipment
 Measuring Equipment



Specifications

Part #	Resistance @ 25°C (Ω)	$\beta_{25/85}$ (K)	Dissipation Constant (mW/°C)	Rated Power (mW)	Dimensions (mm)			Size Code	Operating Temperature Range
					L	W	t max		
N71-101J-280J	100	2800	3.0	400	3.2 ± 0.2	1.6 ± 0.2	1 (1206 size)	-40 ~ +125°C	
N71-351J-325J	350	3250						-40 ~ +150°C	
N71-471J-325J	470	3250						-40 ~ +125°C	
N71-501J-325J	500	3250						-40 ~ +150°C	
N71-801J-325J	800	3250						-40 ~ +125°C	
N71-102J-325J	1k	3250						-40 ~ +150°C	
N71-152J-345J	1.5k	3450						-40 ~ +125°C	
N71-172J-410J	1.7k	4100						-40 ~ +150°C	
N71-202J-410J	2k	4100						-40 ~ +125°C	
N71-222J-410J	2.2k	4100						-40 ~ +150°C	
N71-252J-410J	2.5k	4100						-40 ~ +125°C	
N71-272J-410J	2.7k	4100						-40 ~ +150°C	
N71-302J-410J	3k	4100						-40 ~ +125°C	
N71-472J-355J	4.7k	3550						-40 ~ +150°C	
N71-502J-355J	5k	3550						-40 ~ +125°C	
N71-103J-375J	10k	3750						-40 ~ +150°C	
N71-153J-375J	15k	3750						-40 ~ +125°C	
N71-153J-400J	15k	4000						-40 ~ +150°C	
N71-203J-400J	20k	4000						-40 ~ +125°C	
N71-223J-400J	22k	4000						-40 ~ +150°C	
N71-303J-400J	30k	4000						-40 ~ +125°C	
N71-333J-400J	33k	4000						-40 ~ +150°C	
N71-473J-400J	47k	4000						-40 ~ +125°C	
N71-503J-400J	50k	4000						-40 ~ +150°C	
N71-104J-425J	100k	4250						-40 ~ +125°C	
N71-154J-425J	150k	4250						-40 ~ +150°C	
N71-204J-425J	200k	4250						-40 ~ +125°C	
N71-304J-435J	300k	4350						-40 ~ +150°C	
N71-474J-435J	470k	4350						-40 ~ +125°C	
N71-504J-435J	500k	4350						-40 ~ +150°C	
N72-400J-280J	40	2800	2.0	300	2.0 ± 0.2	1.25 ± 0.2	1.2 (0805 size)	-40 ~ +125°C	
N72-680J-280J	68	2800						-40 ~ +150°C	
N72-800J-280J	80	2800						-40 ~ +125°C	
N72-101J-280J	100	2800						-40 ~ +150°C	
N72-201J-310J	200	3100						-40 ~ +125°C	
N72-221J-310J	220	3100						-40 ~ +150°C	
N72-471J-325J	470	3250						-40 ~ +125°C	
N72-501J-325J	500	3250						-40 ~ +150°C	
N72-681J-325J	680	3250						-40 ~ +125°C	
N72-102J-325J	1k	3250						-40 ~ +150°C	
N72-152J-345J	1.5k	3450						-40 ~ +125°C	
N72-202J-410J	2k	4100						-40 ~ +150°C	
N72-222J-410J	2.2k	4100						-40 ~ +125°C	
N72-252J-410J	2.5k	4100						-40 ~ +150°C	
N72-302J-410J	3k	4100						-40 ~ +125°C	
N72-332J-410J	3.3k	4100						-40 ~ +150°C	
N72-472J-355J	4.7k	3550						-40 ~ +125°C	
N72-502J-355J	5k	3550						-40 ~ +150°C	
N72-682J-375J	6.8k	3750						-40 ~ +125°C	
N72-103J-344J	10k	3435						-40 ~ +150°C	
N72-103J-375J	10k	3750	-40 ~ +125°C						
N72-103J-380J	10k	3800	-40 ~ +150°C						
N72-153J-400J	15k	4000	-40 ~ +125°C						
N72-203J-400J	20k	4000	-40 ~ +150°C						
N72-223J-400J	22k	4000	-40 ~ +125°C						
N72-303J-400J	30k	4000	-40 ~ +150°C						

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Specifications (continued)

Part #	Resistance @ 25°C (Ω)	$\beta_{25/85}$ (K)	Dissipation Constant (mW/°C)	Rated Power (mW)	Dimensions (mm)			Size Code	Operating Temperature Range
					L	W	t max		
N72-333J-400J	33k	4000	2.0	300	2.0 ± 0.2	1.25 ± 0.2	1.2	2 (0805 size)	-40 ~ +150°C
N72-473J-415J	47k	4150							-40 ~ +125°C
N72-503J-400J	50k	4000							-40 ~ +150°C
N72-503J-415J	50k	4150							-40 ~ +150°C
N72-683J-415J	68k	4150							-40 ~ +150°C
N72-104J-425J	100k	4250							-40 ~ +150°C
N72-154J-425J	150k	4250							-40 ~ +150°C
N72-204J-425J	200k	4250							-40 ~ +150°C
N72-304J-425J	300k	4250							-40 ~ +150°C
N72-474J-435J	470k	4350							-40 ~ +125°C
N72-504J-435J	500k	4350	-40 ~ +125°C						
N73-300J-275J	30	2750	1.7	150	1.6 ± 0.2	0.8 ± 0.2	1.0	3 (0603 size)	-40 ~ +125°C
N73-400J-280J	40	2800							-40 ~ +125°C
N73-500J-280J	50	2800							-40 ~ +125°C
N73-680J-280J	68	2800							-40 ~ +125°C
N73-800J-280J	80	2800							-40 ~ +125°C
N73-101J-280J	100	2800							-40 ~ +125°C
N73-221J-305J	220	3050							-40 ~ +125°C
N73-331J-320J	330	3200							-40 ~ +125°C
N73-471J-320J	470	3200							-40 ~ +125°C
N73-501J-320J	500	3200							-40 ~ +125°C
N73-501J-325J	500	3250							-40 ~ +125°C
N73-681J-325J	680	3250							-40 ~ +125°C
N73-102J-325J	1k	3250							-40 ~ +125°C
N73-152J-345J	1.5k	3450							-40 ~ +125°C
N73-202J-410J	2k	4100							-40 ~ +125°C
N73-222J-410J	2.2k	4100							-40 ~ +125°C
N73-252J-410J	2.5k	4100							-40 ~ +125°C
N73-272J-410J	2.7k	4100							-40 ~ +125°C
N73-302J-410J	3k	4100							-40 ~ +125°C
N73-332J-410J	3.3k	4100							-40 ~ +125°C
N73-472J-355J	4.7k	3550							-40 ~ +125°C
N73-502J-355J	5k	3550							-40 ~ +125°C
N73-682J-355J	6.8k	3550							-40 ~ +125°C
N73-103J-344J	10k	3435							-40 ~ +125°C
N73-103J-375J	10k	3750							-40 ~ +125°C
N73-103J-400J	10k	4000							-40 ~ +125°C
N73-153J-380J	15k	3800							-40 ~ +125°C
N73-203J-380J	20k	3800							-40 ~ +125°C
N73-223J-380J	22k	3800							-40 ~ +125°C
N73-303J-400J	30k	4000							-40 ~ +125°C
N73-333J-400J	33k	4000	-40 ~ +125°C						
N73-473J-400J	47k	4000	-40 ~ +125°C						
N73-503J-400J	50k	4000	-40 ~ +125°C						
N73-683J-400J	68k	4000	-40 ~ +125°C						
N73-104J-415J	100k	4150	-40 ~ +125°C						
N73-154J-425J	150k	4250	-40 ~ +125°C						
N73-204J-425J	200k	4250	-40 ~ +125°C						
N74-400J-280J	40	2800	1.5	40	1.0 ± 0.2	0.5 ± 0.2	0.7	4 (0402 size)	-40 ~ +125°C
N74-102J-330J	1k	3300							-40 ~ +125°C
N74-122J-330J	1.2k	3300							-40 ~ +125°C
N74-142J-330J	1.4k	3300							-40 ~ +125°C
N74-152J-330J	1.5k	3300							-40 ~ +125°C
N74-202J-410J	2k	4100							-40 ~ +125°C
N74-222J-410J	2.2k	4100							-40 ~ +125°C
N74-252J-410J	2.5k	4100							-40 ~ +125°C
N74-302J-410J	3k	4100							-40 ~ +125°C
N74-332J-410J	3.3k	4100							-40 ~ +125°C
N74-352J-410J	3.5k	4100							-40 ~ +125°C
N74-402J-410J	4k	4100							-40 ~ +125°C
N74-652J-410J	6.5k	4100							-40 ~ +125°C
N74-103J-344J	10k	3435							-40 ~ +125°C
N74-303J-400J	30k	4000							-40 ~ +125°C
N74-333J-400J	33k	4000							-40 ~ +125°C
N74-473J-400J	47k	4000							-40 ~ +125°C
N74-683J-400J	68k	4000							-40 ~ +125°C
N74-104J-425J	100k	4250							-40 ~ +125°C
N74-154J-425J	150k	4250							-40 ~ +125°C
N74-204J-425J	200k	4250	-40 ~ +125°C						

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R vs T Table

T(°C)	Part #						
	N72-400J-280J	N71-501J-325J	N71-102J-325J	N71-202J-410J	N71-302J-410J	N71-502J-355J	N71-103J-375J
	N73-400J-280J	N72-501J-325J	N72-102J-325J	N72-202J-410J	N72-302J-410J	N72-502J-355J	N72-103J-375J
	N74-400J-280J		N73-102J-325J	N73-202J-410J	N73-302J-410J	N73-502J-355J	N73-103J-375J
	R _T (Ω)	R _T (Ω)	R _T (kΩ)	R _T (kΩ)	R _T (kΩ)	R _T (kΩ)	R _T (kΩ)
-40	527.2	9,437	17.84	95.11	142.7	112.9	249.2
-35	413.1	7,157	13.64	65.82	98.74	84.44	184.4
-30	326.7	5,484	10.52	46.22	69.33	63.82	138.0
-25	260.7	4,243	8.195	32.89	49.34	48.70	104.3
-20	209.7	3,313	6.435	23.71	35.56	37.50	79.57
-15	169.9	2,609	5.094	17.30	25.96	29.13	61.28
-10	138.8	2,071	4.063	12.77	19.16	22.81	47.60
-5	114.1	1,657	3.264	9.529	14.29	17.99	37.28
0	94.45	1,335	2.639	7.182	10.77	14.30	29.43
5	78.65	1,084	2.149	5.466	8.198	11.45	23.40
10	65.88	885.0	1.760	4.198	6.297	9.221	18.74
15	55.49	727.4	1.450	3.252	4.878	7.476	15.10
20	46.99	601.4	1.201	2.540	3.811	6.096	12.25
25	40.00	500.0	1.000	2.000	3.000	5.000	10.00
30	34.18	418.3	0.8375	1.587	2.380	4.124	8.212
35	29.36	351.9	0.7052	1.269	1.904	3.420	6.774
40	25.34	297.6	0.5967	1.024	1.535	2.852	5.611
45	21.96	252.9	0.5074	0.8317	1.247	2.390	4.667
50	19.12	216.0	0.4334	0.6807	1.021	2.012	3.897
55	16.71	185.3	0.3719	0.5610	0.8415	1.702	3.266
60	14.66	159.7	0.3204	0.4654	0.6980	1.446	2.747
65	12.91	138.2	0.2772	0.3885	0.5827	1.234	2.319
70	11.41	120.1	0.2407	0.3262	0.4894	1.057	1.964
75	10.12	104.7	0.2098	0.2755	0.4133	0.9095	1.669
80	9.012	91.67	0.1835	0.2340	0.3510	0.7851	1.422
85	8.025	80.52	0.1610	0.1998	0.2997	0.6803	1.216
90	7.163	70.98	0.1418	0.1718	0.2558	0.5917	1.046
95	6.409	62.78	0.1253	0.1486	0.2228	0.5164	0.9026
100	5.747	55.70	0.1111	0.1291	0.1937	0.4521	0.7816
105	5.164	49.56	0.0972	0.1128	0.1691	0.3971	0.6790
110	4.651	44.24	0.0880	0.0989	0.1484	0.3498	0.5917
115	4.197	39.59	0.0787	0.0872	0.1308	0.3091	0.5172
120	3.794	35.53	0.0705	0.0772	0.1157	0.2739	0.4533
125	3.437	31.97	0.0633	0.0686	0.1029	0.2433	0.3985
130		28.83	0.0570	0.0619	0.0917	0.2167	0.3512
135		26.07	0.0515	0.0548	0.0822	0.1935	0.3103
140		23.63	0.0466	0.0493	0.0739	0.1732	0.2749
145		21.46	0.0422	0.0444	0.0666	0.1554	0.2441
150		19.54	0.0384	0.0402	0.0603	0.1398	0.2173

Part Numbering System:

N7 **1** **101** **J** **280** **J** **T**
 1 2 3 4 5 6 7

- 1 = Stetron Series: N7 Series
- 2 = Size Code: (1, 2, 3, 4)
- 3 = Resistance @ R25:* 101 = 100Ω
(2 most significant figures followed by number of zeros)
- 4 = Resistance Tolerance:** J = ±5%
- 5 = B-Value: 280 = 2800K
- 6 = B-Value Tolerance:** J = ±5%
- 7 = Packaging:
Blank = Bulk
T = Tape/Reel***

* Other resistance values are available.

** Other tolerances available. Contact Stetron sales office for details.

***Reference taping specs on the next page



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