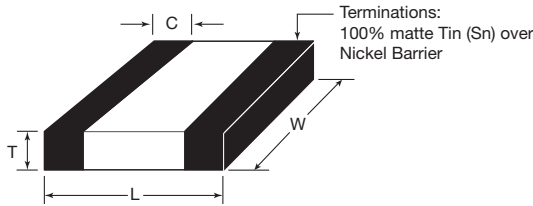


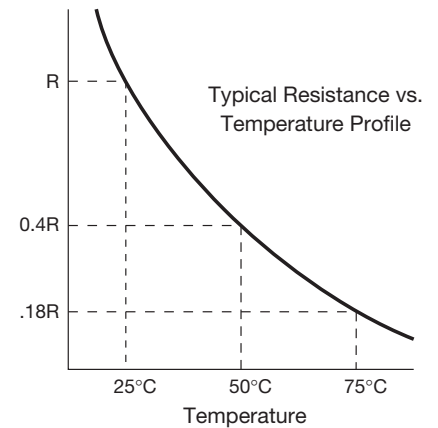
# NTC Chip Thermistors

- Features**
- Negative temperature coefficient
  - Flat response to temperature variations make them ideally suited for temperature sensors and compensators
  - Standard EIA 0402, 0603 and 0805 sizes



Unit: mm (inch)

Series	Size	L	W	T max.	C
NTC0402	0402	1.0 ± 0.15 (0.040 ± .006)	0.5 ± 0.05 (0.020 ± .002)	0.55 (0.022)	0.15 min. (0.006)
NTC0603	0603	1.6 ± 0.15 (0.063 ± .006)	0.80 ± 0.15 (0.031 ± .006)	0.95 (0.040)	0.30 ± .15 (0.012 ± 0.006)
NTC0805	0805	2.0 ± 0.20 (0.079 ± .008)	1.25 ± 0.20 (0.050 ± .008)	1.25 (0.050)	0.40 ± .2 (0.016 ± 0.008)

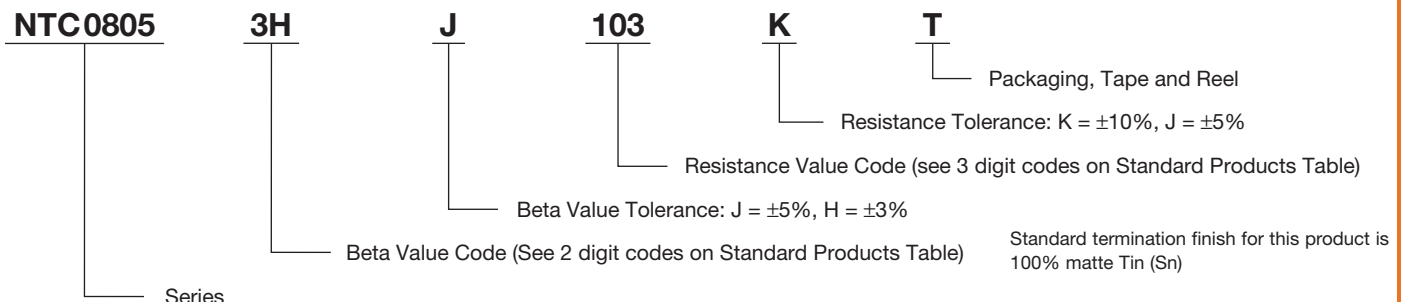


## Characteristics

Series	NTC0402	NTC0603	NTC0805
EIA Size	0402	0603	0805
Resistance Range (+25°C)*	40 Ω ~ 2MEG Ω	22 Ω ~ 200K Ω	40 Ω ~ 200K Ω
Resistance Tolerance (+25°C)*	(K) ±10% STD. (J) ±5% OPT.	(K) ±10% STD. (J) ±5% OPT.	(K) ±10% STD. (J) ±5% OPT.
Operating Temp. Range	-40°C ~ +125°C	-40°C ~ +125°C	-40°C ~ +125°C
Storage Temp. Range	-40°C ~ +125°C	-40°C ~ +125°C	-40°C ~ +125°C
Maximum Power Rating**	30mW	150mW	400mW
Dissipation Constant	1.5mW/°C	1.7mW/°C	2.0mW/°C
Beta Value Range (+25°C~+50°C)	2800 ~ 4950	2150 ~ 4250	2750 ~ 4250
Beta Value Tolerance	(J) ±5%, (H) ±3%	(J) ±5%, (H) ±3%	(J) ±5%, (H) ±3%

\*See Standard Products Table. \*\*Test Method per JIS-C2571.

## How To Order



All components in this section are RoHS compliant per the EU directives and definitions.

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 e-mail: sales@venkel.com • www.venkel.com

## NTC CHIP THERMISTORS - Standard Products Table

		Series: NTC0402			Series: NTC0603			Series: NTC0805		
Resistance (+25°C)		Beta**		TC*	Beta**		TC*	Beta**		TC*
Value (OHM)	Code	Value	Code	%°C	Value	Code	%°C	Value	Code	%°C
22	220	n/a	n/a	n/a	2750	2S	-3.07	n/a	n/a	n/a
30	300	n/a	n/a	n/a	2150	2D	-2.40	n/a	n/a	n/a
33	330	n/a	n/a	n/a	2750	2S	-3.07	n/a	n/a	n/a
40	400	2800	2T	-3.13	2750	2S	-3.07	2800	2T	-3.13
50	500	n/a	n/a	n/a	2800	2T	-3.13	n/a	n/a	n/a
68	680	2800	2T	-3.13	2800	2T	-3.13	n/a	n/a	n/a
100	101	2800	2T	-3.13	2750	2S	-3.07	2750	2S	-3.07
150	151	2800	2T	-3.13	n/a	n/a	n/a	n/a	n/a	n/a
220	221	n/a	n/a	n/a	2900	2V	-3.24	2900	2V	-3.24
470	471	n/a	n/a	n/a	3200	3E	-3.58	3250	3F	-3.63
500	501	n/a	n/a	n/a	3200	3E	-3.58	3250	3F	-3.63
680	681	n/a	n/a	n/a	3250	3F	-3.63	3250	3F	-3.63
1K	102	3200	3E	-3.58	3250	3F	-3.63	3250	3E	-3.58
1.5K	152	3200	3E	-3.58	n/a	n/a	n/a	n/a	n/a	n/a
2.0K	202	4100	4C	-4.58	n/a	n/a	n/a	3500	3K	-3.91
2.0K	202	n/a	n/a	n/a	4100	4C	-4.58	4100	4C	-4.58
3.0K	302	4100	4C	-4.58	4100	4C	-4.58	4100	4C	-4.58
3.3K	332	4100	4C	-4.58	4100	4C	-4.58	4100	4C	-4.58
4.7K	472	n/a	n/a	n/a	3550	3L	-3.94	3550	3L	-3.94
5K	502	n/a	n/a	n/a	3550	3L	-3.94	3550	3L	-3.94
10K	103	3800	3T	-4.27	4100	4C	-4.58	3370	3H	-3.77
10K	103	n/a	n/a	n/a	3370	3H	-3.77	3750	3S	-4.19
10K	103	n/a	n/a	n/a	3750	3S	-4.19	3924	3V	-4.38
15K	153	3800	3T	-4.27	3800	3T	-4.27	4000	4A	-4.42
20K	203	3800	3T	-4.27	3800	3T	-4.27	4000	4A	-4.42
22K	223	3900	3V	-4.36	3800	3T	-4.27	4000	4A	-4.42
30K	303	4000	4A	-4.42	4000	4A	-4.42	4000	4A	-4.42
33K	333	4000	4A	-4.42	4000	4A	-4.42	4000	4A	-4.42
47K	473	4000	4A	-4.42	4000	4A	-4.42	4150	4D	-4.64
50K	503	n/a	n/a	n/a	4000	4A	-4.42	4000	4A	-4.42
68K	683	4000	4A	-4.42	4000	4A	-4.42	4150	4D	-4.64
100K	104	4250	4F	-4.78	3700	3R	-4.13	4100	4C	-4.58
100K	104	n/a	n/a	n/a	4150	4D	-4.64	4250	4F	-4.78
150K	154	4250	4F	-4.78	4250	4F	-4.78	4250	4F	-4.78
200K	204	4250	4F	-4.78	4250	4F	-4.78	4250	4F	-4.78
2MEG	205	4950	4W	-5.53	n/a	n/a	n/a	n/a	n/a	n/a

\*TC is Temperature Coefficient at +25°C expressed in Percent Resistance Value Change per degree Celsius

\*\*Beta Value is specified (+/-3%) for +25°C ~ +50°C Temperature Range