

## NTC Thermistors, Surface Mount Chip



### FEATURES

- Solderable terminations
- Wraparound terminations
- Allows design flexibility for use with hybrid circuitry
- High-density monolithic construction

NTHS PRODUCT R <sub>25</sub> °C VALUE RANGE BY CURVE AVAILABILITY						
CURVE	NTHS-0402	NTHS-0603	NTHS-0805	NTHS-1206	NTHS-1012	% TOLERANCE AVAILABILITY
3	N/A	1000 - 2000	1000 - 2000	1000 - 2000	500 - 700	5 %, 10 %
6	4.7K - 5.0K	2K - 3.5K	1.5K - 2.8K	1.5K - 3.5K	1000 - 2000	5 %, 10 %
2	10K - 12K	6.8K - 12K	4.7K - 10K	4.7K - 10K	1.3K - 4.3K	3 %, 5 %, 10 %
10	18K - 25K	10K - 20K	6K - 12K	10K - 20K	4.5K - 7K	3 %, 5 %, 10 %
11	30K - 34K	22K - 32K	12K - 30K	20K - 33K	9K - 13K	3 %, 5 %, 10 %
5	47K - 50K	32K - 50K	35K - 50K	30K - 44K	15K - 20K	3 %, 5 %, 10 %
1	68K - 100K	32K - 100K	33K - 100K	32K - 70K	10K - 30K	1 % to 10 %
17	250K	150K - 200K	100K - 200K	100K - 200K	30K - 93K	3 %, 5 %, 10 %
4	350K	200K - 220K	200K - 220K	200K - 330K	93K - 140K	3 %, 5 %, 10 %

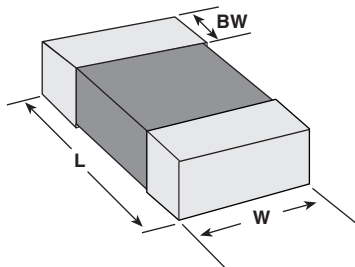
### GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: NTSH1206N02N1002JR (preferred part numbering format)

GLOBAL MODEL	CONDUCTOR TYPE	CURVE	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING
NTSH0402 NTSH0603 NTSH0805 NTSH1206 NTSH1012	Nickel Barrier	01 02 03 04 05 06 10 11 17	N	1002 = 10K	F = ± 1 % J = ± 5 % K = ± 10 %	F = Lead (Pb)-free, Bulk E = Lead (Pb)-free, T/R (Full) P = Tin/Lead, Bulk R = Tin/Lead, T/R (Full)

Historical Part Number example: NTHS1206N02N1002JR (will continue to be accepted)

HISTORICAL MODEL	CONDUCTOR TYPE	CURVE	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	PACKAGING
NTHS1206	N	02	N	1002	J	R

**DIMENSIONS** in inches [millimeters]

PART NUMBER	L	W	BW
NTHS-0402	0.040 ± 0.004 [1.016 ± 0.102]	0.022 ± 0.006 [0.5 ± 0.051]	0.010 ± 0.004 [0.25 ± 0.102]
NTHS-0603	0.063 ± 0.008 [1.6 ± 0.20]	0.031 ± 0.008 [0.80 ± 0.20]	0.010 ± 0.006 [0.25 ± 0.15]
NTHS-0805	0.079 ± 0.008 [2.00 ± 0.20]	0.049 ± 0.008 [1.25 ± 0.20]	0.012 ± 0.006 [0.30 ± 0.15]
NTHS-1206	0.126 ± 0.008 [3.20 ± 0.20]	0.063 ± 0.008 [1.60 ± 0.20]	0.018 ± 0.008 [0.46 ± 0.20]
NTHS-1012	0.098 ± 0.008 [2.50 ± 0.20]	0.126 ± 0.008 [3.20 ± 0.20]	0.018 ± 0.008 [0.46 ± 0.20]

**TYPICAL PRODUCT RTC CHARACTERISTICS**

CURVE	1	2	3	4	5	6	10	11	17
NTC%/°C at + 25 °C	- 4.4	- 3.83	- 3.5	- 4.68	- 4.3	- 3.6	- 3.9	- 4.0	- 4.54
Beta + 25 °C/+ 75 °C	3964	3477	3181	4247	3890	3254	3500	3700	4064

Beta Tolerance is ± 3 %



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