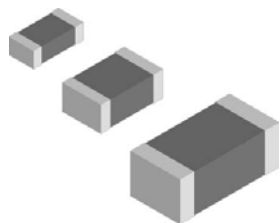


# NTC Thermistors, Surface Mount Chip

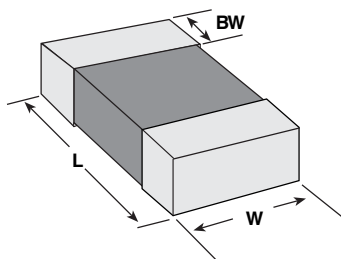


## FEATURES

- 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: NTHS1206N02N1002JR (preferred part numbering format)						
<b>N</b>	<b>T</b>	<b>H</b>	<b>S</b>	<b>1</b>	<b>2</b>	<b>0</b>
<b>6</b>	<b>N</b>	<b>0</b>	<b>2</b>	<b>N</b>	<b>1</b>	<b>0</b>
<b>0</b>	<b>0</b>	<b>2</b>	<b>J</b>	<b>R</b>		
GLOBAL MODEL	CONDUCTOR TYPE	CURVE	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING
NTHS0402 NTHS0603 NTHS0805 NTHS1206 NTHS1012	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)						
<b>NTHS1206</b>	<b>N</b>	<b>02</b>	<b>N</b>	<b>1002</b>	<b>J</b>	<b>R</b>
HISTORICAL MODEL	CONDUCTOR TYPE	CURVE	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	PACKAGING

**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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