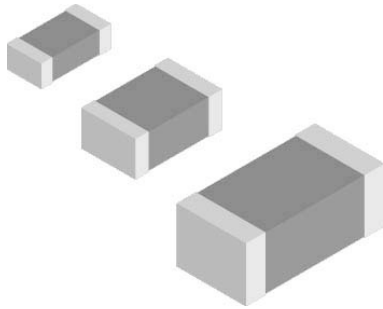


NTC Thermistors, Surface Mount Chip



FEATURES

- Solderable terminations.
- Wraparound terminations.
- Allows design flexibility for use with hybrid circuitry.
- High-density monolithic construction.
- Standard EIA E6 values.

PRODUCT VALUE RANGE BY CURVE AVAILABILITY

| CURVE | NTHS-0402 | NTHS-0603 | NTHS-0805 | NTHS-1206 | NTHS-1012 |
|-------|-----------|---------------|---------------|---------------|---------------|
| 3 | | 500Ω - 2KΩ | 300Ω - 2KΩ | 200Ω - 1KΩ | — |
| 2 | 10K | 3KΩ - 13KΩ | 2KΩ - 10KΩ | 1KΩ - 12KΩ | 1.3KΩ - 4.3KΩ |
| 1 | 68K, 100K | 25KΩ - 100KΩ | 12KΩ - 70KΩ | 12KΩ - 100KΩ | 10KΩ - 30KΩ |
| 17 | 250K | 100KΩ - 200KΩ | 70KΩ - 200KΩ | 100KΩ - 200KΩ | 30KΩ - 93KΩ |
| 4 | 350K | 200KΩ - 400KΩ | 200KΩ - 302KΩ | 200KΩ - 350KΩ | 93KΩ - 139KΩ |
| 5 | 47K, 50K | | | | |
| 6 | 4.7K, 5K | | | | |

STANDARD VALUES

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 220Ω | 330Ω | 470Ω | 680Ω | 1KΩ | 1.5KΩ |
| 2.2KΩ | 3.3KΩ | 4.7KΩ | 5.0KΩ | 6.8KΩ | 10KΩ |
| 15KΩ | 22KΩ | 33KΩ | 47KΩ | 50KΩ | 68KΩ |
| 100KΩ | 150KΩ | 220KΩ | 330KΩ | | |

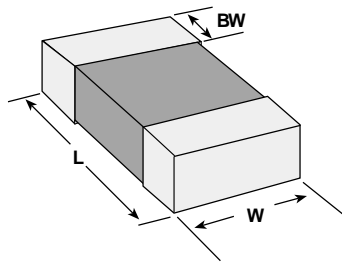
NOTE: Contact factory for non-standard values.

ORDERING INFORMATION

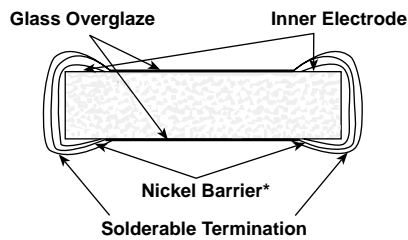
| | | | | | |
|-------------------------------|----------------------------|---------------------------|------------------------|--------------------------------------|-----------------------|
| NTHS1206 MODEL TYPE | N CONDUCTOR TYPE | 01 CURVE NUMBER | N NON LINEAR | XXXX R ₂₅ VALUE | J TOLERANCE |
| | N = Nickel Barrier | | | Last digit is the multiplier | J = ± 5% K = ± 10% |

EXAMPLE: NTHS1206N01N1002J

DIMENSIONS in inches [millimeters]



| PART NUMBER | L | W | BW |
|-------------|---------------------------------|---------------------------------|---------------------------------|
| NTHS-0402 | 0.04 ± 0.004 [1.016 ± 0.102] | 0.02 ± 0.002 [0.508 ± 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] |



*For alternate termination materials contact factory.

CONSTRUCTION

| TYPICAL PRODUCT RTC CHARACTERISTICS | | | | | | | |
|-------------------------------------|-------|--------|-------|--------|-------|-------|--------|
| CURVE | 1 | 2 | 3 | 4 | 5 | 6 | 17 |
| NTC %/°C @ + 25°C | - 4.4 | - 3.83 | - 3.5 | - 4.68 | - 4.3 | - 3.6 | - 4.54 |
| Beta + 25°C/ + 75°C | 3964 | 3477 | 3181 | 4247 | 3890 | 3254 | 4064 |