

Chip NTC Thermistor

ABNTC-0805

RoHS/RoHS II Compliant



2.0 x 1.25 x 0.85 mm

FEATURES:

- Large B constant for high temperature sensing capability
- Designed for high density
- Available in standard EIA compatible case size
- Internal electrode designed for enhanced reliability
- Excellent aging stability

APPLICATIONS:

- For temperature measurement or sensor: Digital thermometer, measuring instruments, temperature controller
- For temperature compensation: transistor circuit, TCXO, Crystal Oscillator
- LED lighting driver, Notebook, Cell Phone, Power Supplies, Disk Drive

STANDARD SPECIFICATIONS:

Operating Temperature: -55°C ~+125°C

Storage Temperature: -10°C ~ +40°C and RH 75% (Max.)

Part Number	Resistance at 25°C R25 (kΩ)	B constant (25-50 °C) (K)	Max. Permissive Operating Current (25 °C) (mA)	Thermal Time Constant	Dissipation Factor (mW/°C)	Rated Electric Power (mW)
ABNTC-0805-202Δ-3950□	2.0	3950	1.0	<5sec	2.0	200
ABNTC-0805-502Δ-3950□	5.0	3950	0.60			
ABNTC-0805-682Δ-3950□	6.8	3950	0.50			
ABNTC-0805-103Δ-3450□	10	3450	0.40			
ABNTC-0805-103Δ-3950□	10	3950	0.44			
ABNTC-0805-153Δ-3500□	15	3500	0.32			
ABNTC-0805-223Δ-4050□	22	4050	0.31			
ABNTC-0805-473Δ-4150□	47	4150	0.20			
ABNTC-0805-503Δ-4150□	50	4150	0.18			
ABNTC-0805-683Δ-4150□	68	4150	0.16			
ABNTC-0805-104Δ-4250□	100	4250	0.14			
ABNTC-0805-154Δ-4300□	150	4300	0.11			
ABNTC-0805-224Δ-4350□	220	4350	0.08			
ABNTC-0805-334Δ-4400□	330	4400	0.06			
ABNTC-0805-474Δ-4500□	470	4500	0.05			
ABNTC-0805-684Δ-4500□	680	4500	0.04			
ABNTC-0805-135Δ-4700□	1300	4700	0.03			

Δ Please specify the tolerance code of R25 (F=±1%, H=±3%, J=±5%, K=±10%).

□: Please specify the tolerance code of B value (F=±1%, H=±3%).

Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- a. Ambient Temperature: 20±15°C
- b. Relative Humidity: 65±20%
- c. Air Pressure: 86 kPa to 106 kPa



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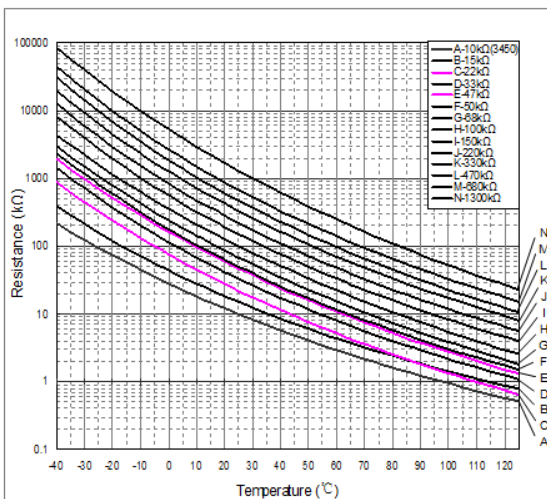
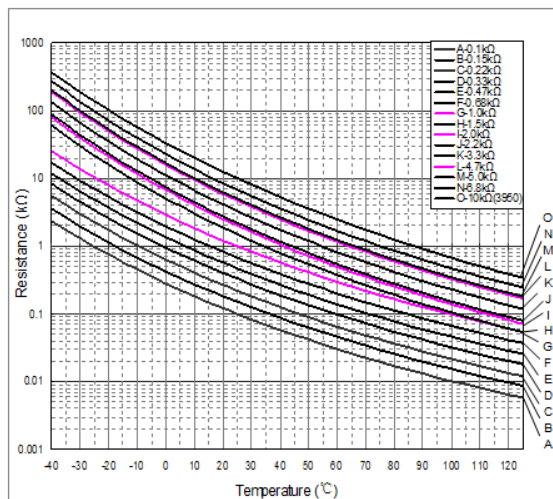
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2.0 x 1.25 x 0.85 mm

ELECTRICAL CHARACTERISTICS CURVES



OPTIONS AND PART IDENTIFICATION:

ABNTC-0805- - - T

R25 Code
Please refer to the table above

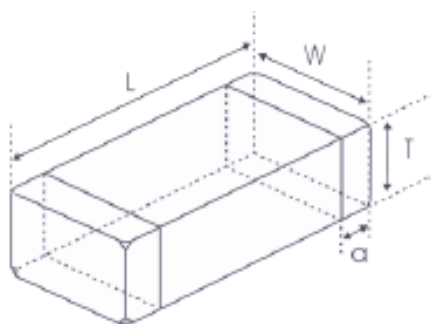
R 25 Tolerance
F=±1%
H=±3%
J=±5%
K=±10%

B Constant
Please refer to the table above

B Tolerance
F=±1%
H=±3%

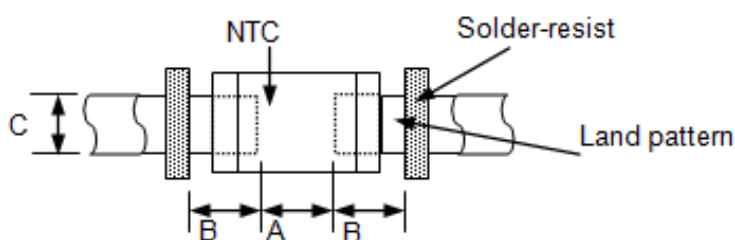
Packaging
T: Tape and Reel (4kpcs / reel)

OUTLINE DIMENSION:



L	W	T	a
2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3

Recommended Land Pattern



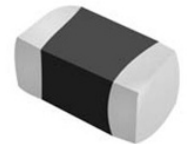
A	B	C
0.80~1.20	0.80~1.20	0.90~1.60

Dimension: mm

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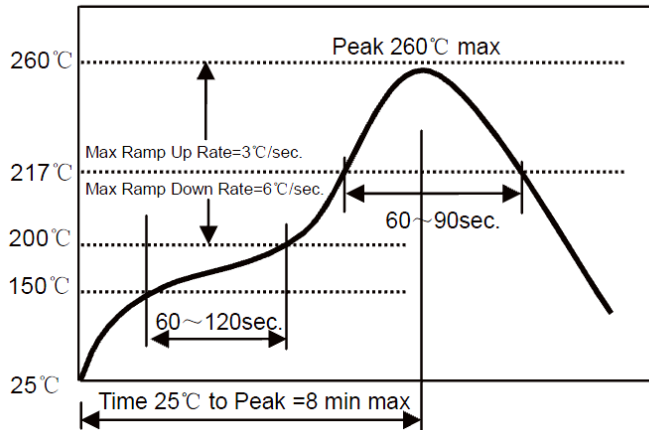
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REFLOW PROFILE:



Preheat Condition	150 to 200 °C; 60 to 120 sec.
Allowed time above 217 °C	60 to 90 sec.
Max temperature	260 °C
Max time at max temperature	10 sec.
Solder paste	Sn/3.0Ag/0.5Cu
Allowed Reflow time	2x max.

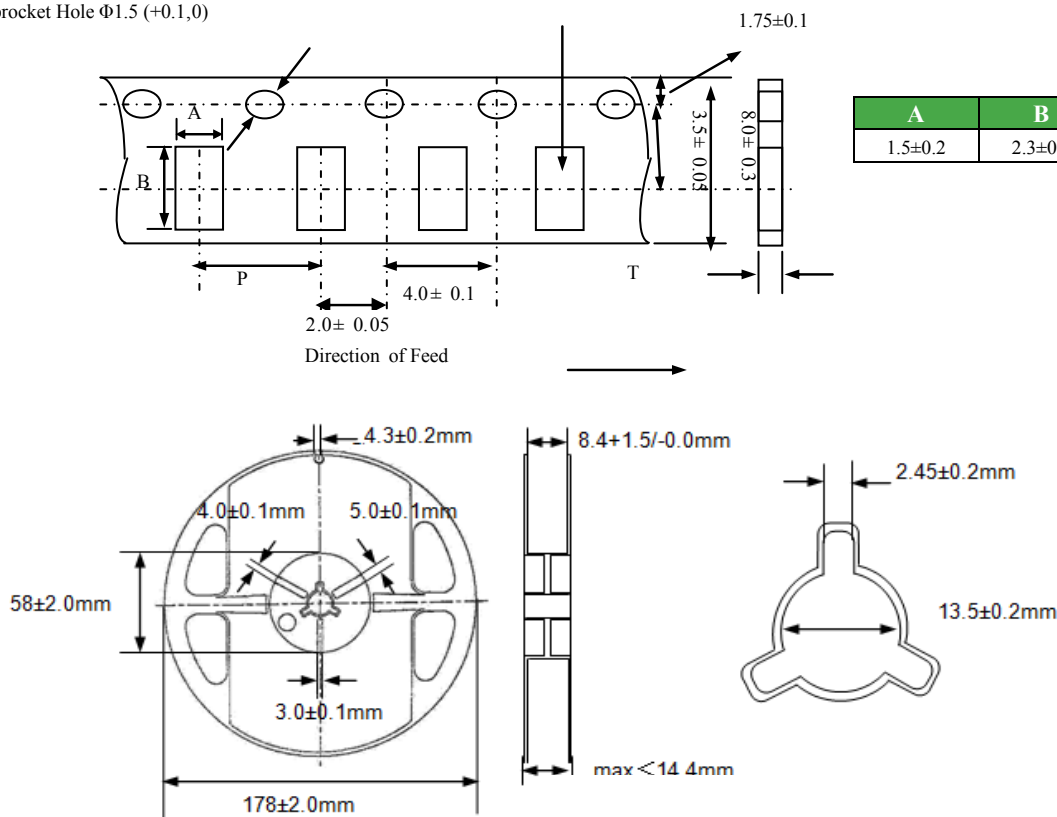
TAPE & REEL:

Packing

T: 4,000pcs / reel

Sprocket Hole $\Phi 1.5 (+0.1, 0)$

Chip Cavity



A	B	P	T (max)
1.5±0.2	2.3±0.2	4.0±0.1	1.1

Dimension: mm

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