

Chip NTC Thermistor

ABNTC-0603

RoHS/RoHS II Compliant



1.6 x 0.8 x 0.8 mm

MSL level: 2A(This product is packed with dry packaging)

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-0603-101Δ-3380□	0.10	3380	3.1	<5sec	1.0	100
ABNTC-0603-151Δ-3380□	0.15	3380	2.5			
ABNTC-0603-221Δ-3450□	0.22	3450	2.1			
ABNTC-0603-331Δ-3450□	0.33	3450	1.7			
ABNTC-0603-471Δ-3450□	0.47	3450	1.4			
ABNTC-0603-681Δ-3450□	0.68	3450	1.2			
ABNTC-0603-102Δ-3450□	1.0	3450	1.0			
ABNTC-0603-152Δ-3450□	1.5	3450	0.81			
ABNTC-0603-222Δ-3950□	2.2	3950	0.67			
ABNTC-0603-302Δ-3950□	3.0	3950	0.55			
ABNTC-0603-332Δ-3950□	3.3	3950	0.55			
ABNTC-0603-472Δ-3500□	4.7	3500	0.44			
ABNTC-0603-472Δ-3950□	4.7	3950	0.46			
ABNTC-0603-502Δ-3950□	5.0	3950	0.44			
ABNTC-0603-682Δ-3950□	6.8	3950	0.38			
ABNTC-0603-103Δ-3450□	10	3450	0.31			
ABNTC-0603-103Δ-3950□	10	3950	0.33			
ABNTC-0603-153Δ-3950□	15	3950	0.25			
ABNTC-0603-223Δ-4050□	22	4050	0.21			
ABNTC-0603-333Δ-4050□	33	4050	0.17			
ABNTC-0603-473Δ-4150□	47	4150	0.14			
ABNTC-0603-503Δ-4150□	50	4150	0.13			
ABNTC-0603-683Δ-4150□	68	4150	0.12			
ABNTC-0603-104Δ-4250□	100	4250	0.10			
ABNTC-0603-154Δ-4300□	150	4300	0.08			
ABNTC-0603-224Δ-4350□	220	4350	0.06			
ABNTC-0603-334Δ-4400□	330	4400	0.05			
ABNTC-0603-474Δ-4500□	470	4500	0.04			
ABNTC-0603-684Δ-4500□	680	4500	0.03			
ABNTC-0603-135Δ-4700□	1300	4700	0.02			

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:

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

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CERTIFIED



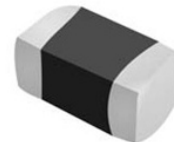
ABRACON
CORPORATION

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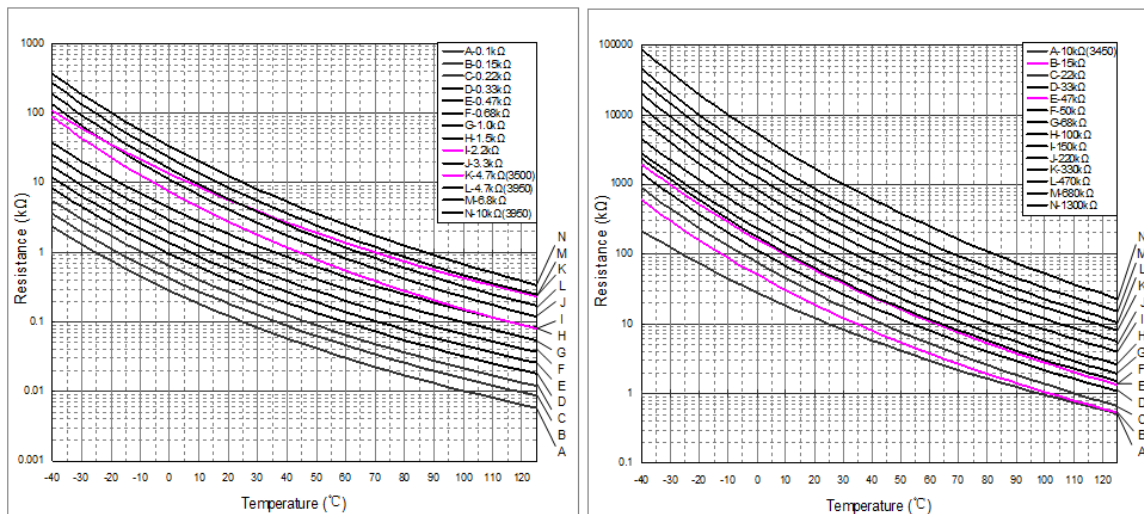
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1.6 x 0.8 x 0.8 mm

ELECTRICAL CHARACTERISTICS CURVES

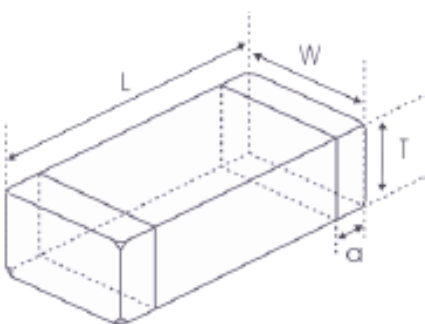


OPTIONS AND PART IDENTIFICATION:

ABNTC-0603- - - T

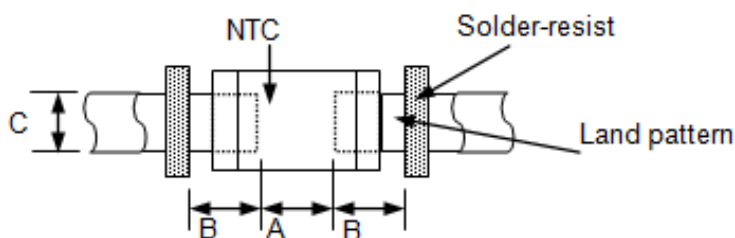
R25 Code	R 25 Tolerance	B Constant	B Tolerance	Packaging
Please refer to the table above	F=±1%	Please refer to the table above	F=±1%	T: Tape and Reel (4kpcs / reel)
	H=±3%		H=±3%	
	J=±5%			
	K=±10%			

OUTLINE DIMENSION:



L	W	T	a
1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

Recommended Land Pattern



A	B	C
0.60~0.80	0.60~0.80	0.60~0.80

Dimension: mm

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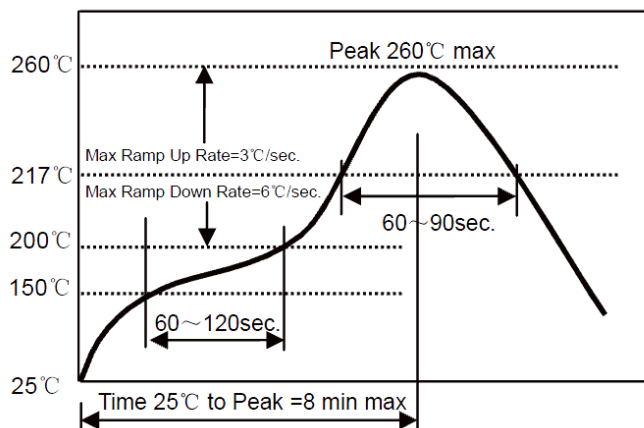
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REFLOW PROFILE:



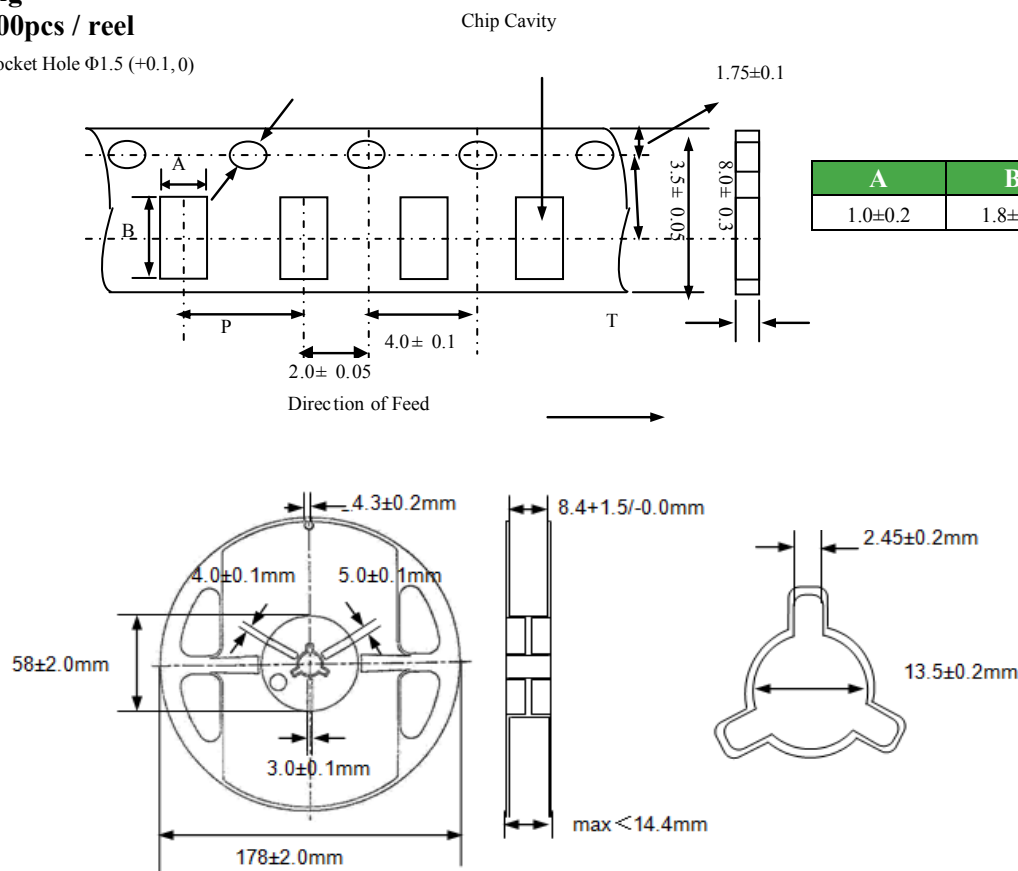
Preheat Condition	150 to 200 °C; 60 to 120 sec.
Allowed time above 217 °C	60 to 90 sec.
Max temperature	260 °C
Max time at max temperature	10 sec.
Solder paste	Sn/3.0Ag/0.5Cu
Allowed Reflow time	2x max.

TAPE & REEL:

Packing

T: 4,000pcs / reel

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



Dimension: mm

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