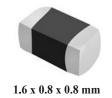
# **Chip NTC Thermistor**

# **ABNTC-0603**

## **RoHS/RoHS II Compliant**



#### **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:**  $-10^{\circ}$ C  $\sim +40^{\circ}$ C and RH 75% (Max.)

Part Number	Resistance at 25°C R25 (kΩ)	R25 Tolerance	B constant (25-50 °C) (K)	B Tolerance	Max. Permissive Operating Current (25 °C) (mA)	Thermal Time Constant	Dissipation Factor (mW/°C)	Rated Electric Power (mW)
ABNTC-0603-472Δ-3950□	4.7	H, J, K	3950	Н	0.46	<5sec	1.0	100
ABNTC-0603-502Δ-3950□	5.0	H, J, K	3950	Н	0.44			
ABNTC-0603-682Δ-3950□	6.8	F, H, J, K	3950	F, H	0.38			
ABNTC-0603-103Δ-3450□	10	F, H, J, K	3450	F, H	0.31			
ABNTC-0603-103Δ-3950□	10	F, H, J, K	3950	F, H	0.33			
ABNTC-0603-153Δ-3950□	15	H, J, K	3950	F, H	0.25			
ABNTC-0603-223Δ-4050□	22	F, H, J, K	4050	Н	0.21			
ABNTC-0603-333Δ-4050□	33	F, H, J, K	4050	F, H	0.17			
ABNTC-0603-473Δ-4150□	47	F, H, J, K	4150	F, H	0.14			
ABNTC-0603-503Δ-4150□	50	F, H, J, K	4150	F, H	0.13			
ABNTC-0603-683Δ-4150□	68	F, H, J, K	4150	F, H	0.12			
ABNTC-0603-104Δ-4250□	100	F, H, J, K	4250	F, H	0.10			

 $<sup>\</sup>Delta$ : Please specify the tolerance code of R25 (F=±1%, H=±3%, J=±5%, K=±10%).

#### **Test Conditions**

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

a. Ambient Temperature:  $20\pm15^{\circ}$ C b. Relative Humidity:  $65\pm20\%$  c. Air Pressure: 86 kPa to 106 kPa



**REVISED: 11-19-19** 

 $<sup>\</sup>Box$ : Please specify the tolerance code of B value (F= $\pm 1\%$ , H= $\pm 3\%$ ).

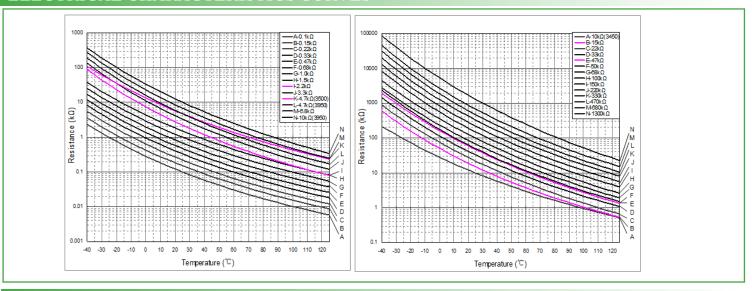
# **Chip NTC Thermistor**

ABNTC-0603

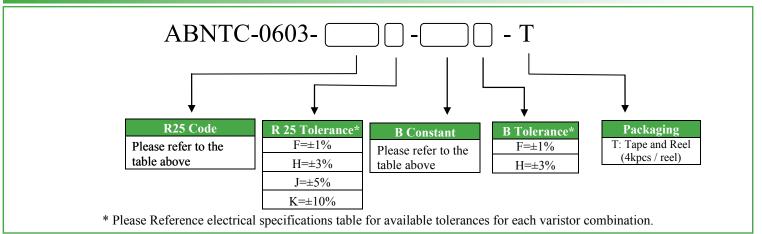
# **RoHS/RoHS II Compliant**



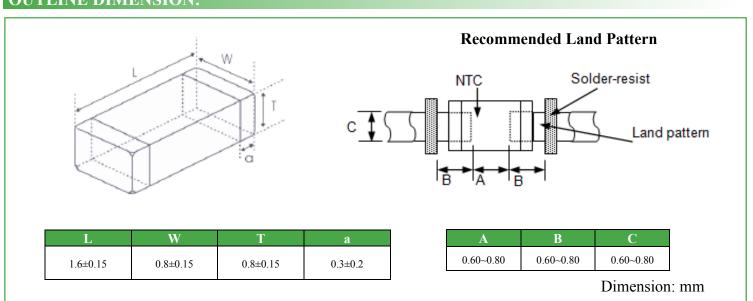
# **ELECTRICAL CHARACTERISTICS CURVES**



## **OPTIONS AND PART IDENTIFICATION:**



## **OUTLINE DIMENSION:**

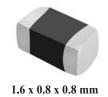




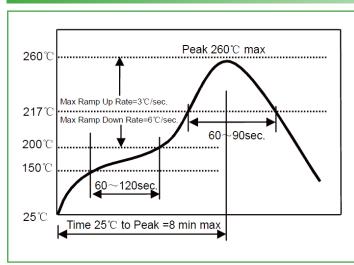
# **Chip NTC Thermistor**

ABNTC-0603

## **RoHS/RoHS II Compliant**

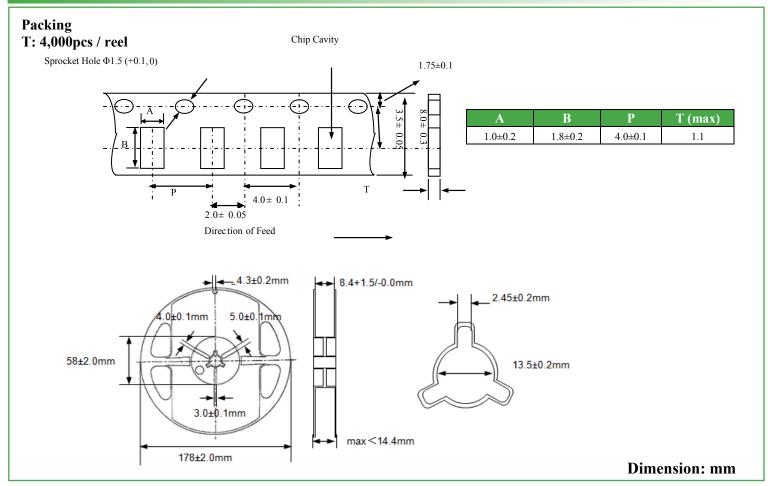


### **REFLOW PROFILE:**



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:**



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