![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Wire Wound Chip Balun Wide Band Transformer

ABT-8

2.0 x 1.2 x 1.2mm

▷ **FEATURES**
- Small size and low profile SMT package
- Low insertion loss within working frequency range
- 1:1 impedance ratio
- Excellent solderability

▷ **APPLICATIONS:**
- Balanced unbalanced transformation between antenna and cable for TV tuner, STB

▷ **ELECTRICAL SPECIFICATIONS:**

Operating Temperature: -40ºC to +85ºC

Storage Temperature: -10ºC to +40ºC, 70% RH max. in tape and reel

Part Number	Frequency Range (MHz)	Unbalance /Balance Impedance (ohm)	DC Resistance (Ω) Max	Rated Current (mA) Max	Insertion Loss max (dB)	CMRR min (dB)	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance Min. (MΩ)
ABT-8-75-1	45~870	75/75	0.80	200	1.0	20	50	125	10
ABT-8-50-1	45~870	50/50	0.80	200	1.2	20	50	125	10
ABT-8-75-2	50~1200	75/75	0.40	300	1.5	20	50	125	10
ABT-8-75-3	1000~1500	75/75	0.42	290	1.4	20	50	125	10

▷ **ELECTRICAL CHARACTERISTIC CURVES**

ABT-8-75-1
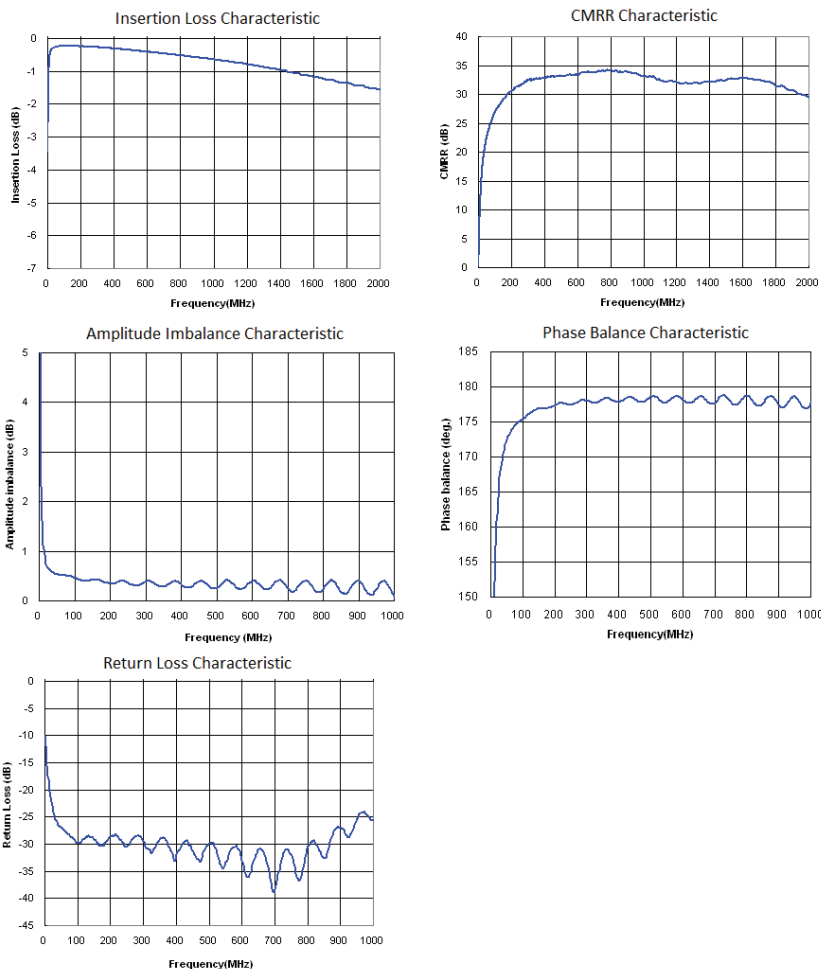
Insertion Loss Characteristic

CMRR Characteristic

Amplitude Imbalance Characteristic

Phase Balance Characteristic

Return Loss Characteristic
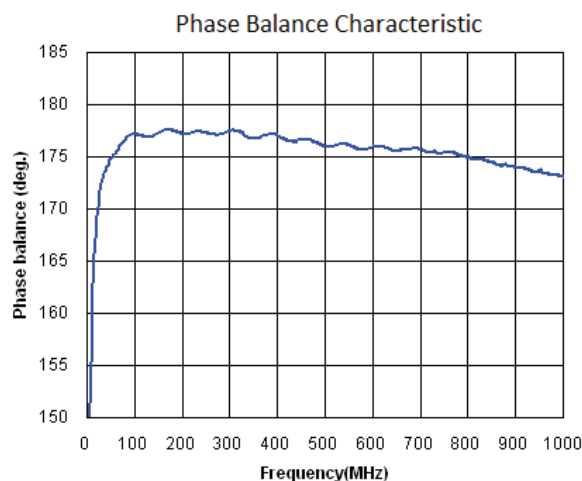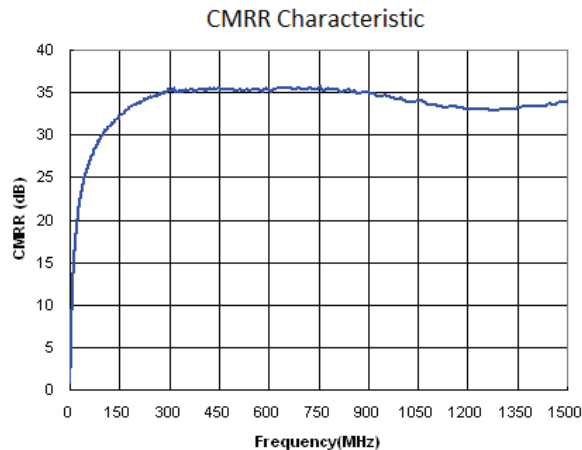
Wire Wound Chip Balun Wide Band Transformer

ABT-8

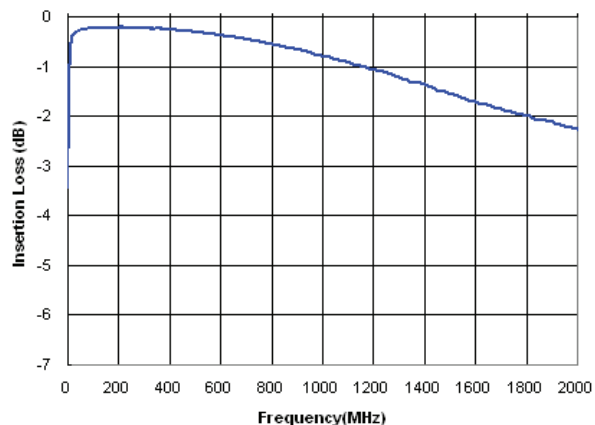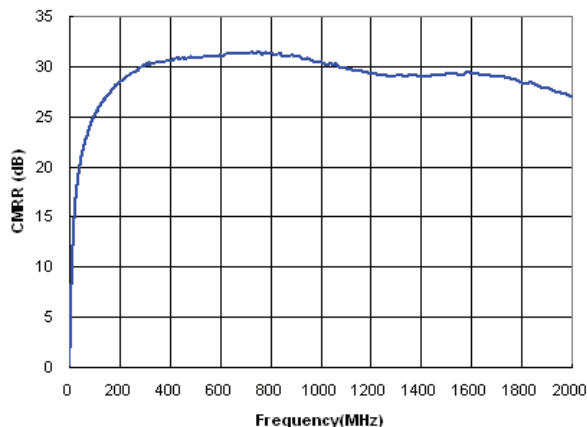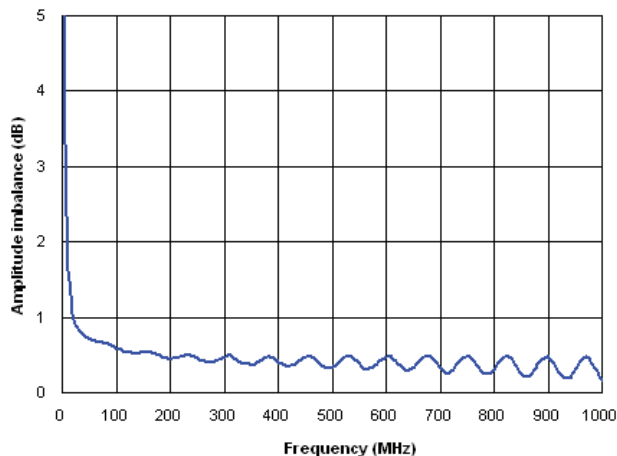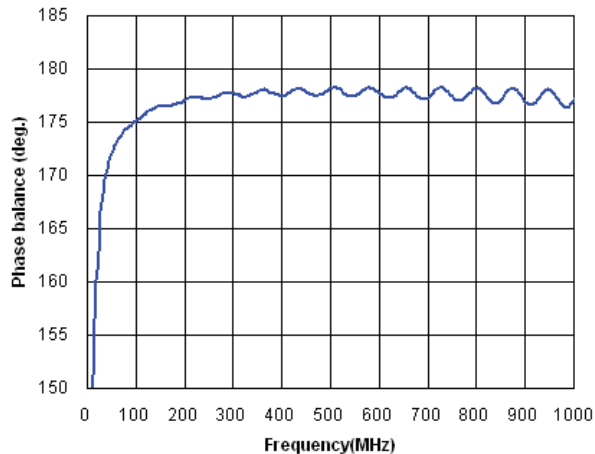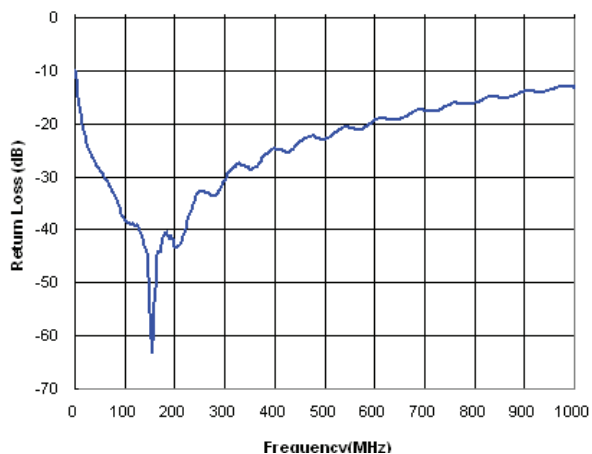Pb **RoHS / RoHS II Compliant**

2.0 x 1.2 x 1.2mm

▷ **ELECTRICAL CHARACTERISTIC CURVES**

ABT-8-50-1

Insertion Loss Characteristic

CMRR Characteristic

Amplitude Imbalance Characteristic

Phase Balance Characteristic

Return Loss Characteristic
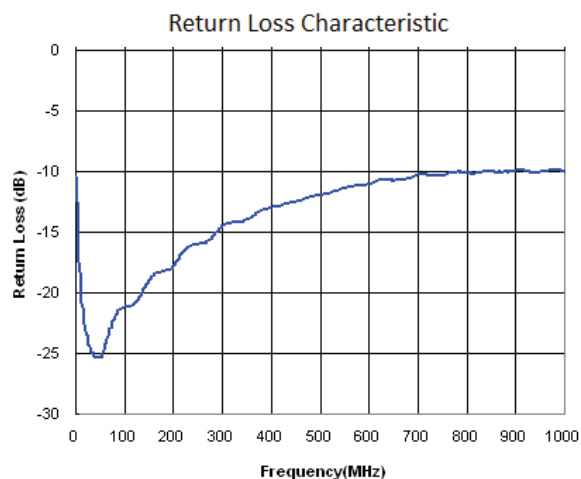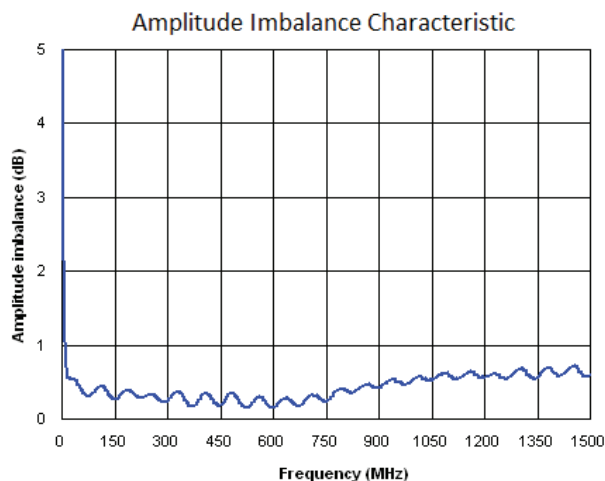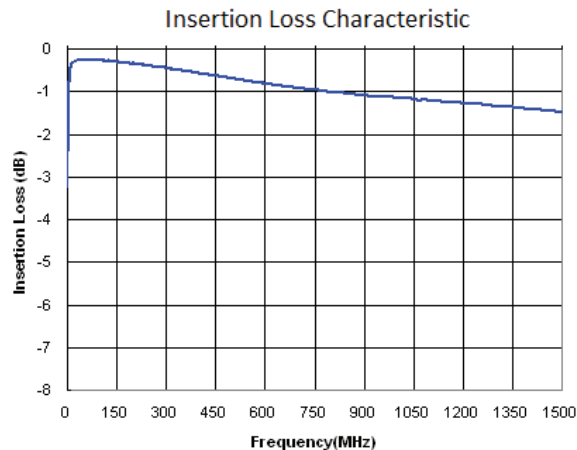
Wire Wound Chip Balun Wide Band Transformer
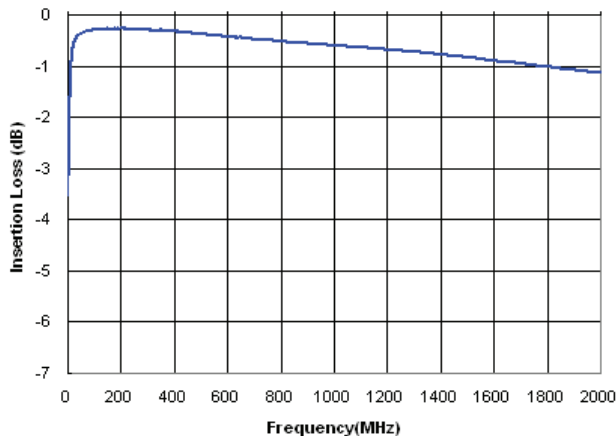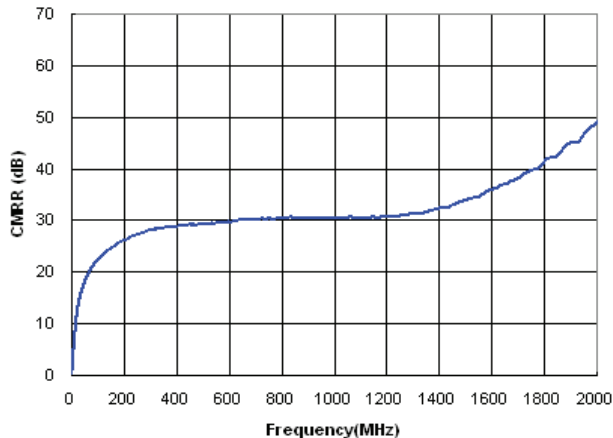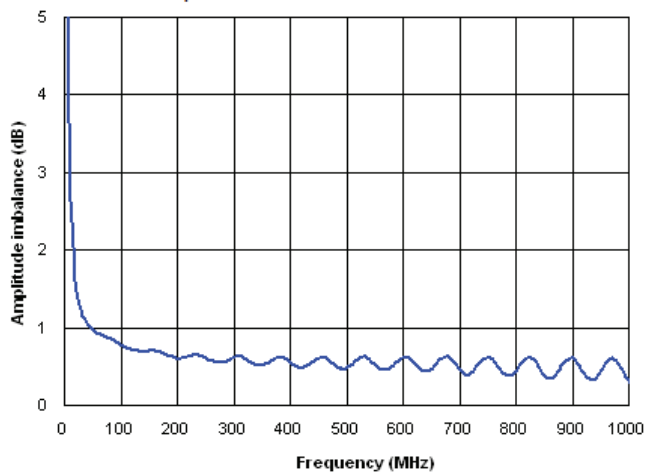
ABT-8

Pb | **RoHS / RoHS II Compliant**

2.0 x 1.2 x 1.2mm

▷ **ELECTRICAL CHARACTERISTIC CURVES**

ABT-8-75-2

Insertion Loss Characteristic

CMRR Characteristic

Amplitude Imbalance Characteristic

Phase Balance Characteristic

Return Loss Characteristic

Wire Wound Chip Balun Wide Band Transformer

ABT-8

Pb **RoHS / RoHS II Compliant**

2.0 x 1.2 x 1.2mm

▷ **ELECTRICAL CHARACTERISTIC CURVES**

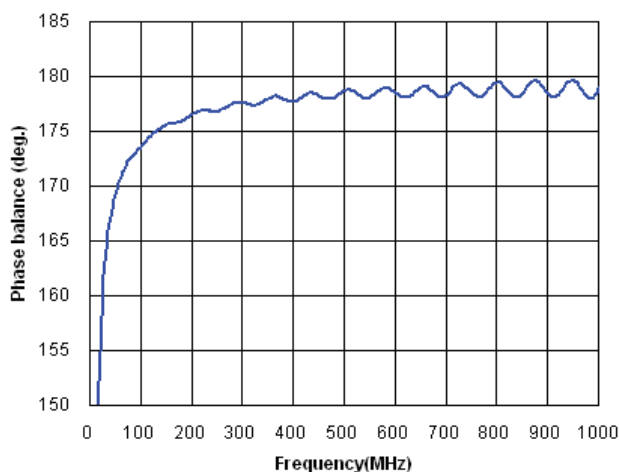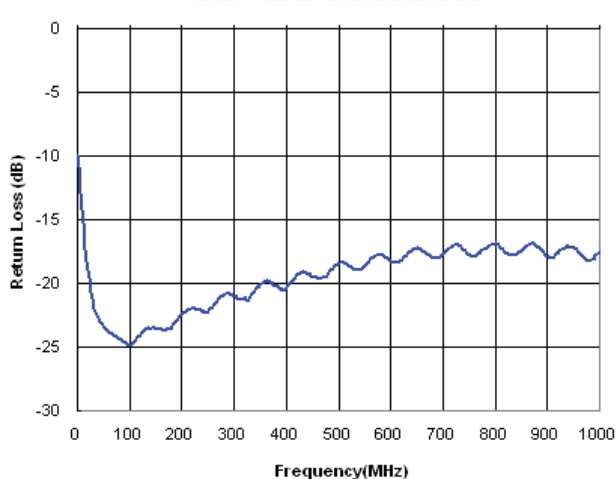### ABT-8-75-3

Insertion Loss Characteristic

CMRR Characteristic

Amplitude Imbalance Characteristic

Phase Balance Characteristic

Return Loss Characteristic
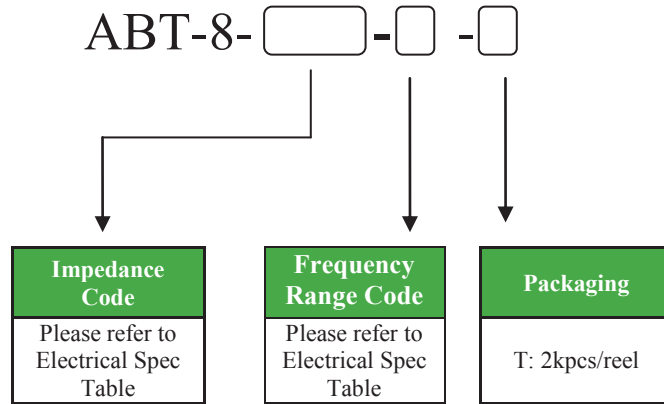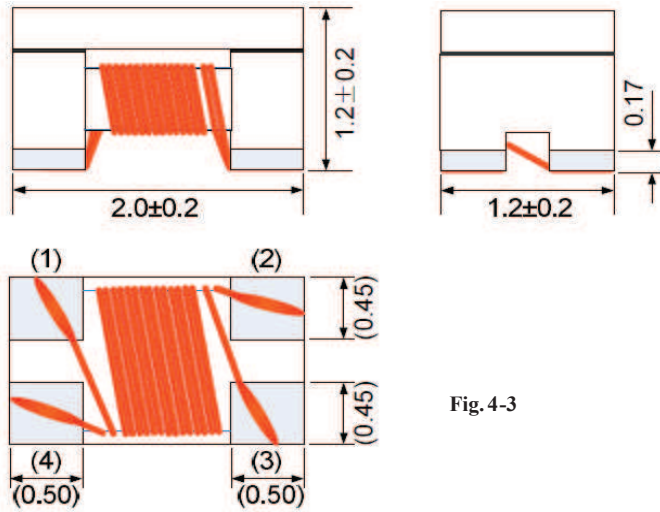
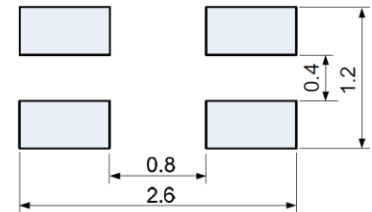# Wire Wound Chip Balun Wide Band Transformer

ABT-8

2.0 x 1.2 x 1.2mm

▷ PART IDENTIFICATION:

ABT-8-☐-☐-☐

Impedance Code	**Frequency Range Code**	**Packaging**
Please refer to Electrical Spec Table	Please refer to Electrical Spec Table	T: 2kpcs/reel

▷ OUTLINE DIMENSIONS:

Fig. 4-3

Recommended Land Pattern

Schematic

Material Structure
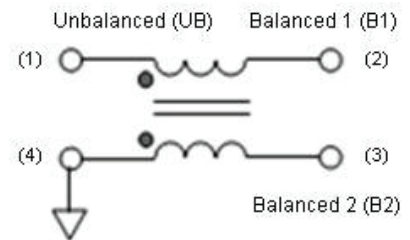
Ni-Zn Ferrite
Ag-Pd
Nickel(Ni)
Tin(Sn)
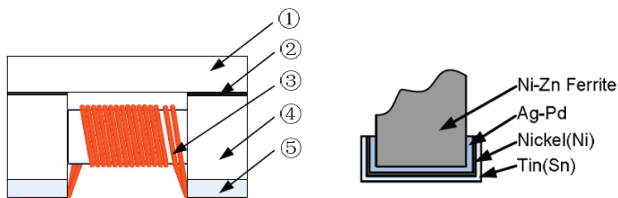
No.	Part Name	Material Name
①	Lid	Ni-Zn Ferrite
②	Epoxy	Epoxy resin
③	Wire	Polyurethane system enameled copper wire
④	Core	Ni-Zn Ferrite
⑤	Electrode	(Ag-Pd)+Ni+Sn plating

Dimension: mm

Wire Wound Chip Balun Wide Band Transformer

ABT-8

Pb | **RoHS / RoHS II Compliant**

2.0 x 1.2 x 1.2mm

▷ **REFLOW PROFILE:**

Peak 260°C max
260°C
Max Ramp Up Rate=3°C/sec.
217°C
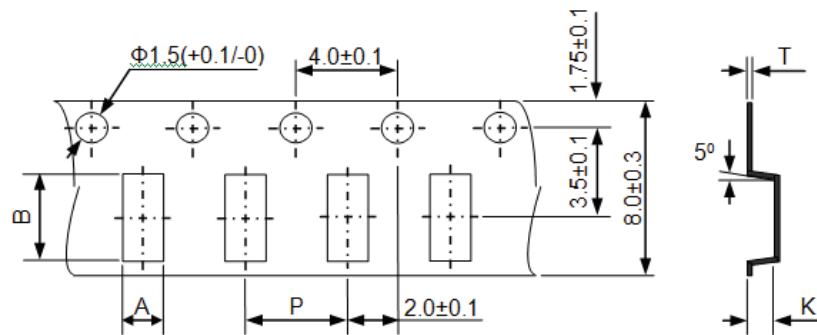Max Ramp Down Rate =6°C/sec.
60~90sec.
200°C
150°C
60~120sec.
25°C
Time 25°C to Peak= 8 min Max
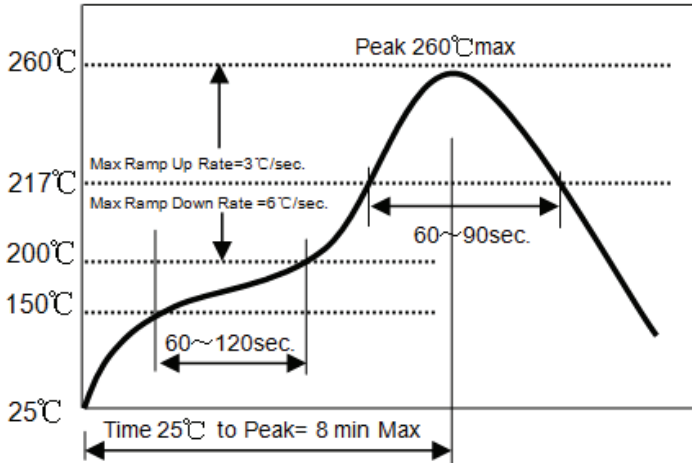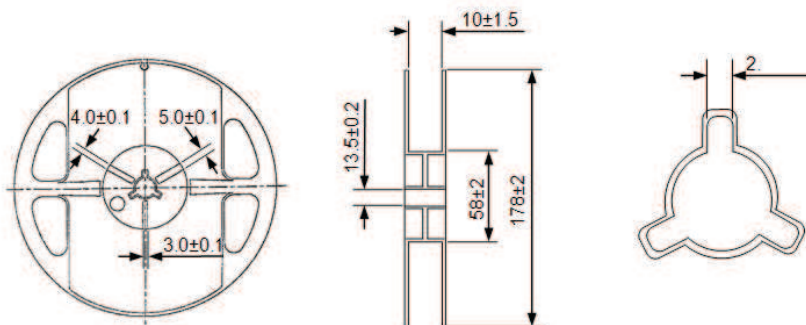
∆ Preheat condition: 150~200°C/60~120sec.
∆ Allowed time above 217°C: 60~90sec.
∆ Max temp: 260°C
∆ Max time at max temp: 10sec.
∆ Solder paste: Sn/3.0Ag/0.5Cu
∆ Allowed Reflow time: 2 times max.

▷ **TAPE & REEL:**

T= tape and reel (2,000pcs/reel)

Φ1.5(+0.1/-0) 4.0±0.1 1.75±0.1
3.5±0.1 8.0±0.3
B 5° T
A P 2.0±0.1 K

A	B	P	K	T
1.55±0.2	2.25±0.2	4.0±0.1	1.45±0.1	0.2±0.1

4.0±0.1 5.0±0.1
3.0±0.1
10±1.5
13.5±0.2 58±2 178±2
2.

Dimension: mm