

1. Part No. Expression:

W 1 2 1 0 F 9 0 0 - R B - □□

(a) (b) (c) (d) (e)(f) (g)

a) Series Code

b) Dimension Code

c) Material Code

d) Impedance Code

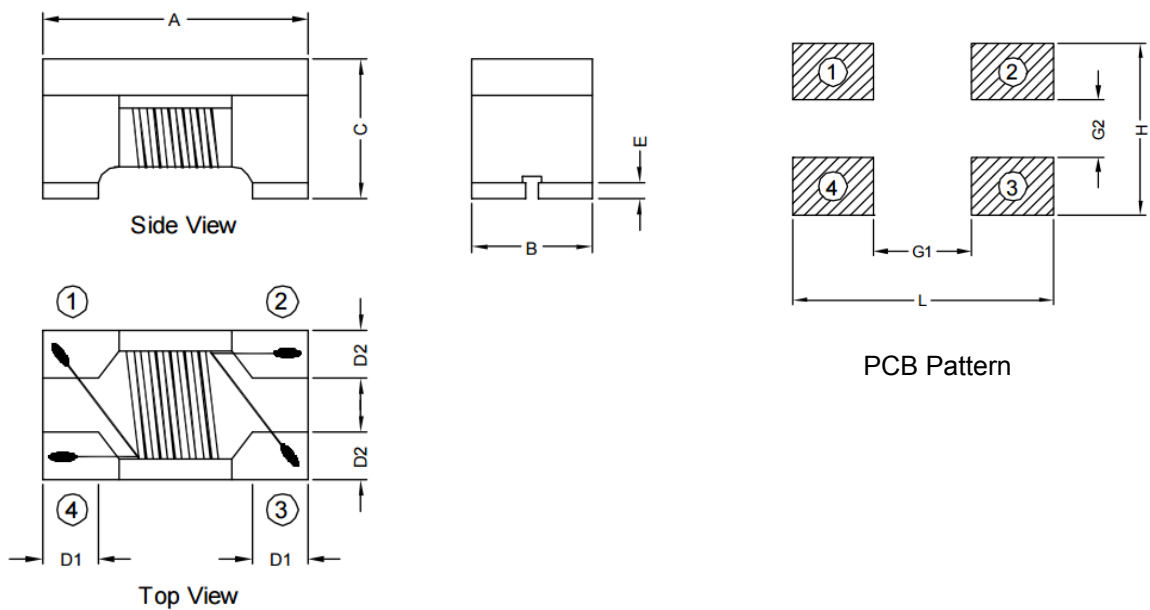
e) R: Tape & Reel

f) Rated Current B: 200mA

g) 10: Standard

11-99 : Internal Controlled Number

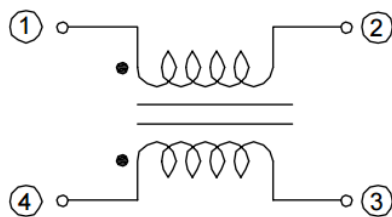
2. Configuration & Dimensions :



Unit: mm

| A | B | C | D1 | D2 | E | G1 | G2 | H | L |
|---------|---------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| 1.2±0.2 | 1.0±0.2 | 0.90 Max. | 0.35±0.1 | 0.35±0.1 | 0.03 Min. | 0.65 Ref. | 0.30 Ref. | 1.10 Ref. | 1.55 Ref. |

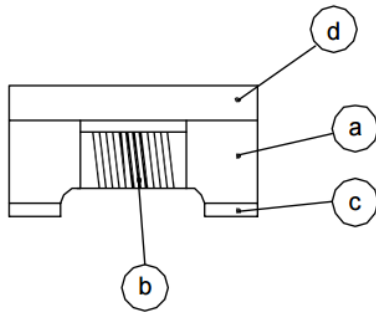
3. Schematic



NOTE: Specifications subject to change without notice. Please check our website for latest information.



4. Material List



- a) Core
- b) Wire
- c) Terminal
- d) Upper Plate

5. General Specification:

- a) Operating Temp. : -40°C ~ +125°C
- b) Storage Temp. : -40°C ~ +125°C
- c) Storage Condition (component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity : 60%

6. Electrical Characteristics

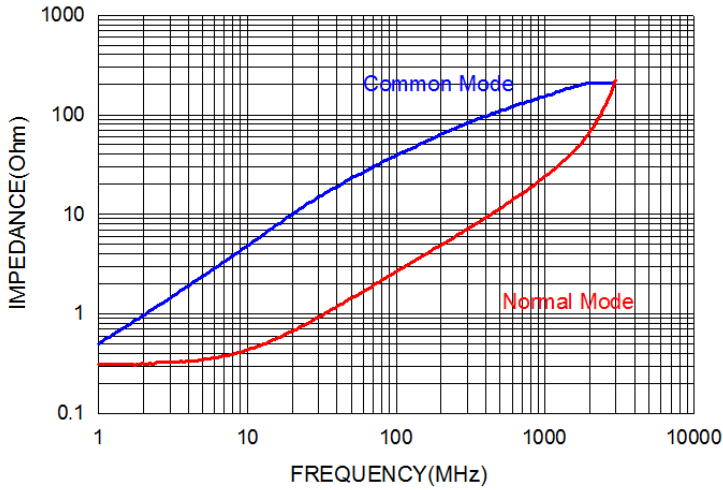
| Part No | Impedance (Ω) | Test Frequency (MHz) | DCR (Ω) Max. | Rated Current(mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | IR (Ω) Min. |
|-----------------|------------------|----------------------------|-----------------|----------------------|---------------------------|-------------------------------|-------------------|
| W1210F500-RC-10 | 50 ± 25% | 100 | 0.30 | 250 | 50 | 125 | 10M |
| W1210F670-RC-10 | 67 ± 25% | 100 | 0.30 | 250 | 50 | 125 | 10M |
| W1210F900-RB-10 | 90 ± 25% | 100 | 0.40 | 200 | 50 | 125 | 10M |

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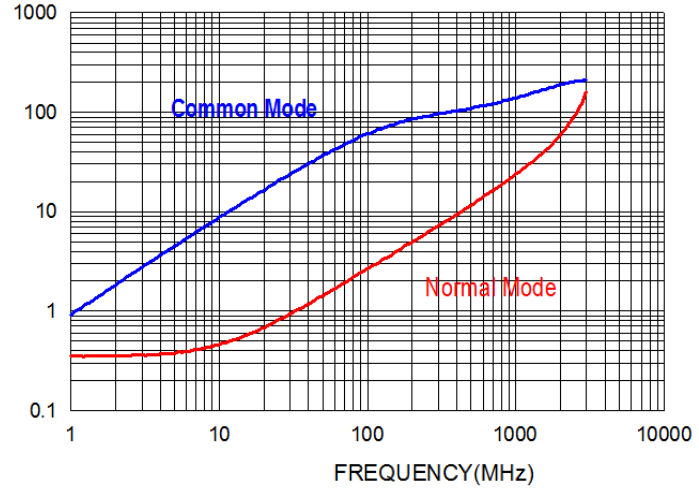
7. Characteristic Curves:

7-1: Impedance versus Frequency

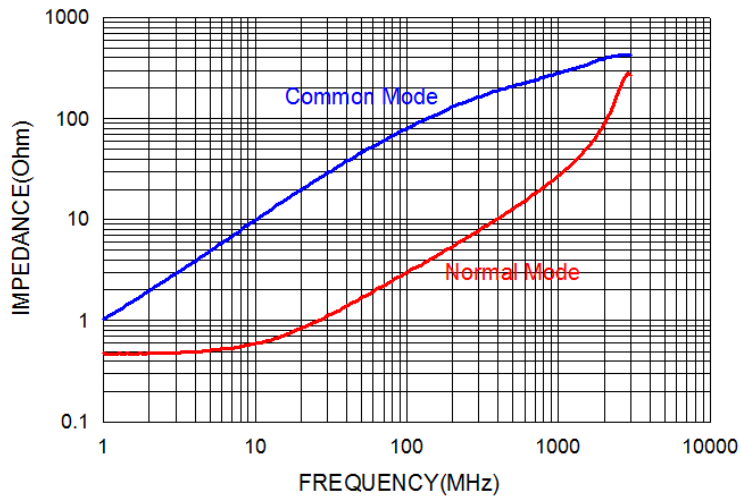
W1210F500-RC-10



W1210F670-RC-10



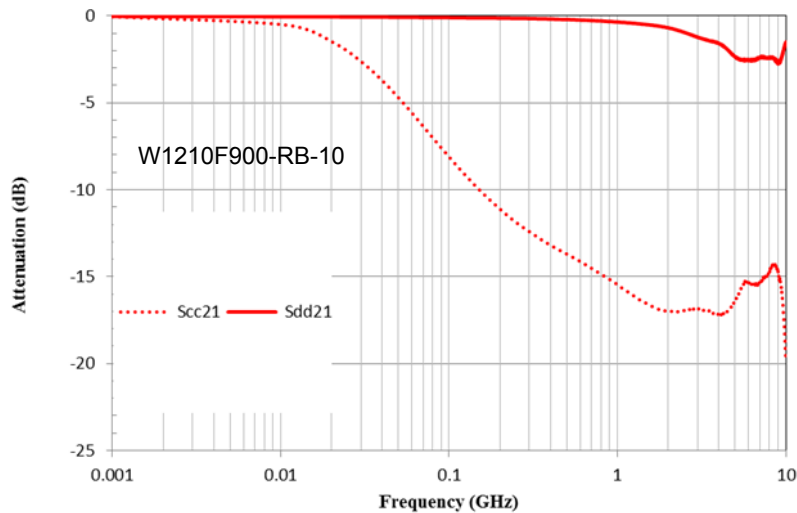
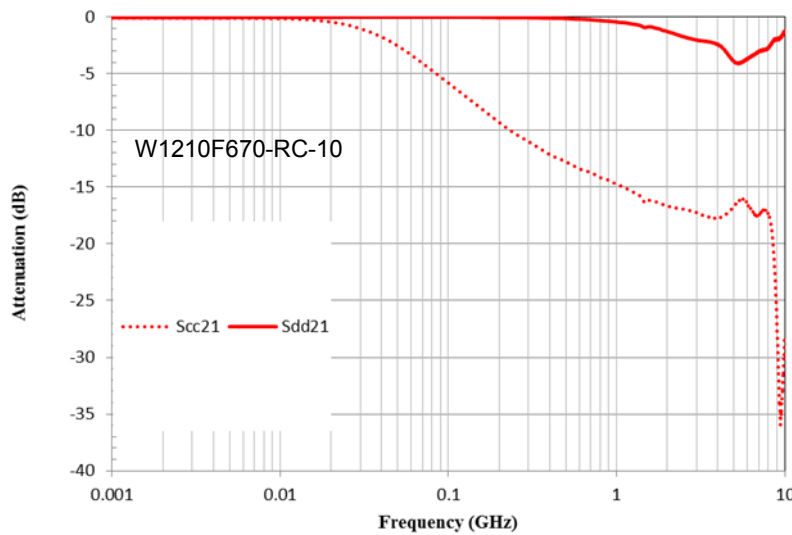
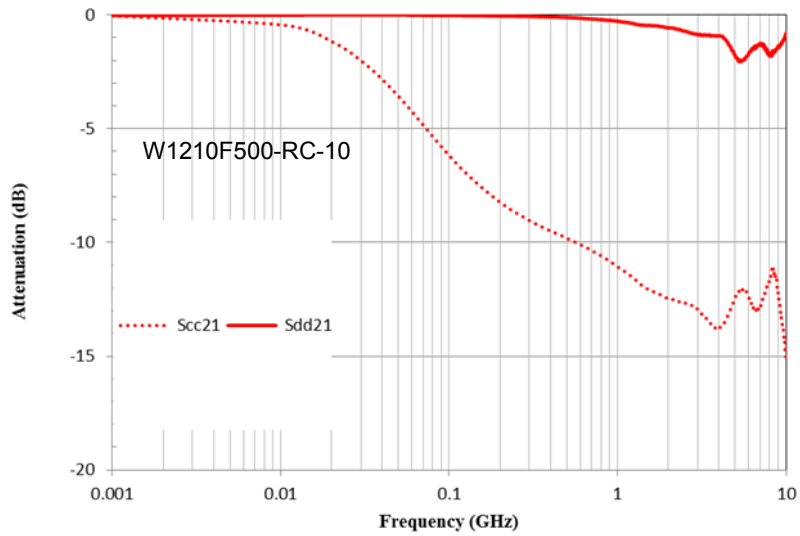
W1210F900-RB-10



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7-2 Insertion Loss Test



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8. Soldering

Mildly activated rosin fluxes are preferred. Our terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-1 Solder Re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

8-2 Soldering Iron (Figure 2):

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Note :

- Preheat circuit and products to 150°C.
- 355°C tip temperature (Max.)
- Never contact the ceramic with the iron tip
- 1.0mm tip diameter (Max.)
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 4~5 sec.

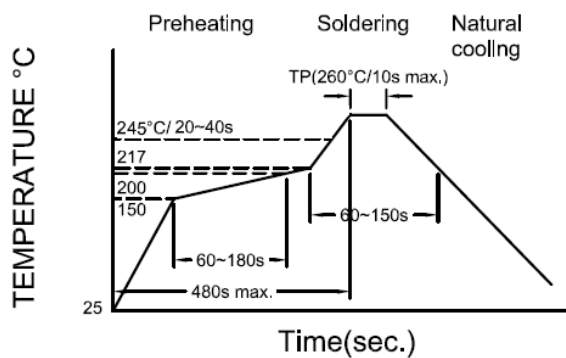


Figure 1. : Re-flow Soldering time
3 times max

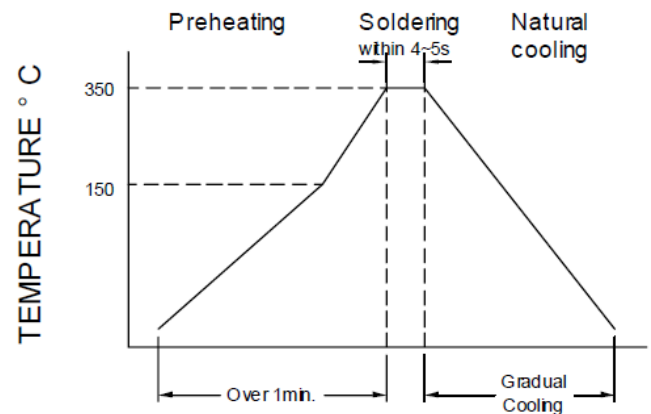
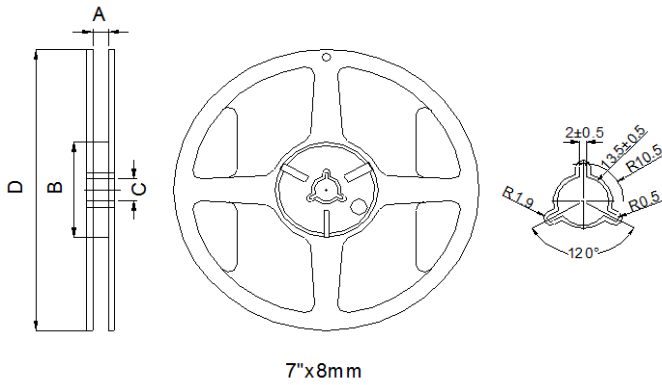


Figure 2. : Iron Soldering time
1 times max

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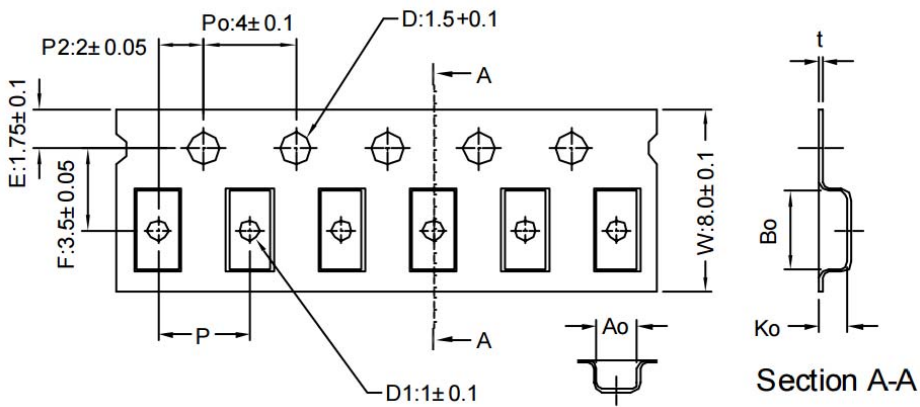
9. Packaging Information

9-1 Reel Dimension



| Type | A(mm) | B(mm) | C(mm) | D(mm) |
|--------|---------|-------|----------|-------|
| 7"x8mm | 9.0±0.5 | 60±2 | 13.5±0.5 | 178±2 |

9-2 Tape Dimension



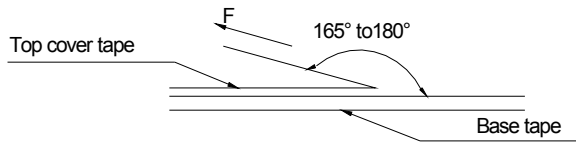
| Series | Ao(mm) | Bo(mm) | Ko(mm) | P(mm) | t(mm) |
|--------|-----------|-----------|-----------|-----------|-----------|
| W1210 | 1.25±0.10 | 1.50±0.10 | 1.05±0.10 | 4.00±0.10 | 0.22±0.05 |

9-3 Packaging Quantity

| | |
|------------|---------|
| Series | W1210 |
| Chip/ Reel | 3,000 |
| Inner Box | 15,000 |
| Middle Box | 75,000 |
| Carton | 150,000 |

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9-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

| Room Temp. (°C) | Room Humidity (%) | Room atm (hPa) | Tearing Speed mm/min |
|-----------------|-------------------|----------------|----------------------|
| 5~35 | 45~85 | 860~1060 | 300 |

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