

1. Part No. Expression:

Z 4 K 3 0 0 - R N - □

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

(a) Series Code

(b) Dimension Code

(c) Material Code

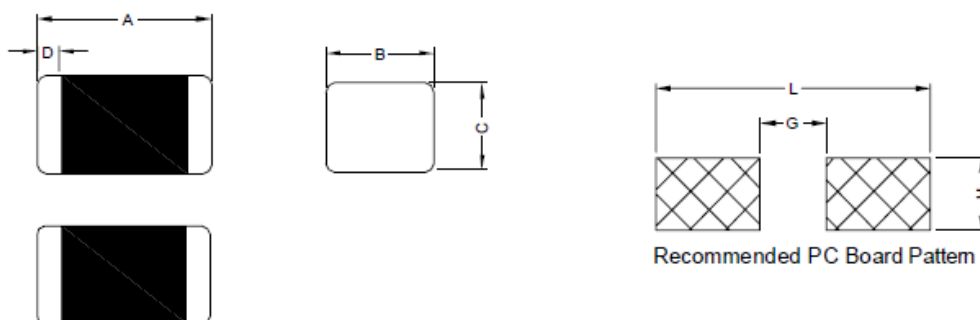
(d) Impedance Code

(e) R: Reel

(f) Rated Current

(g) Internal Control Number

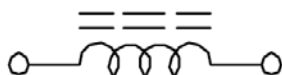
2. Configuration & Dimensions :



Unit: mm

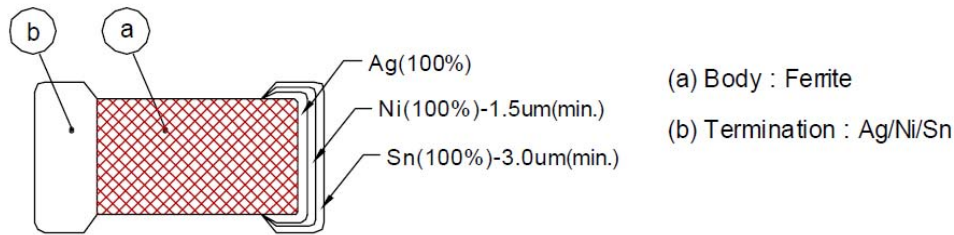
A	B	C	D	G	H	L
3.20 ± 0.20	1.60 ± 0.20	1.10 ± 0.20	0.50 ± 0.30	2.20 Ref.	1.40 Ref.	4.40 Ref.

3. Schematic



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

4. Material List



5. General Specification

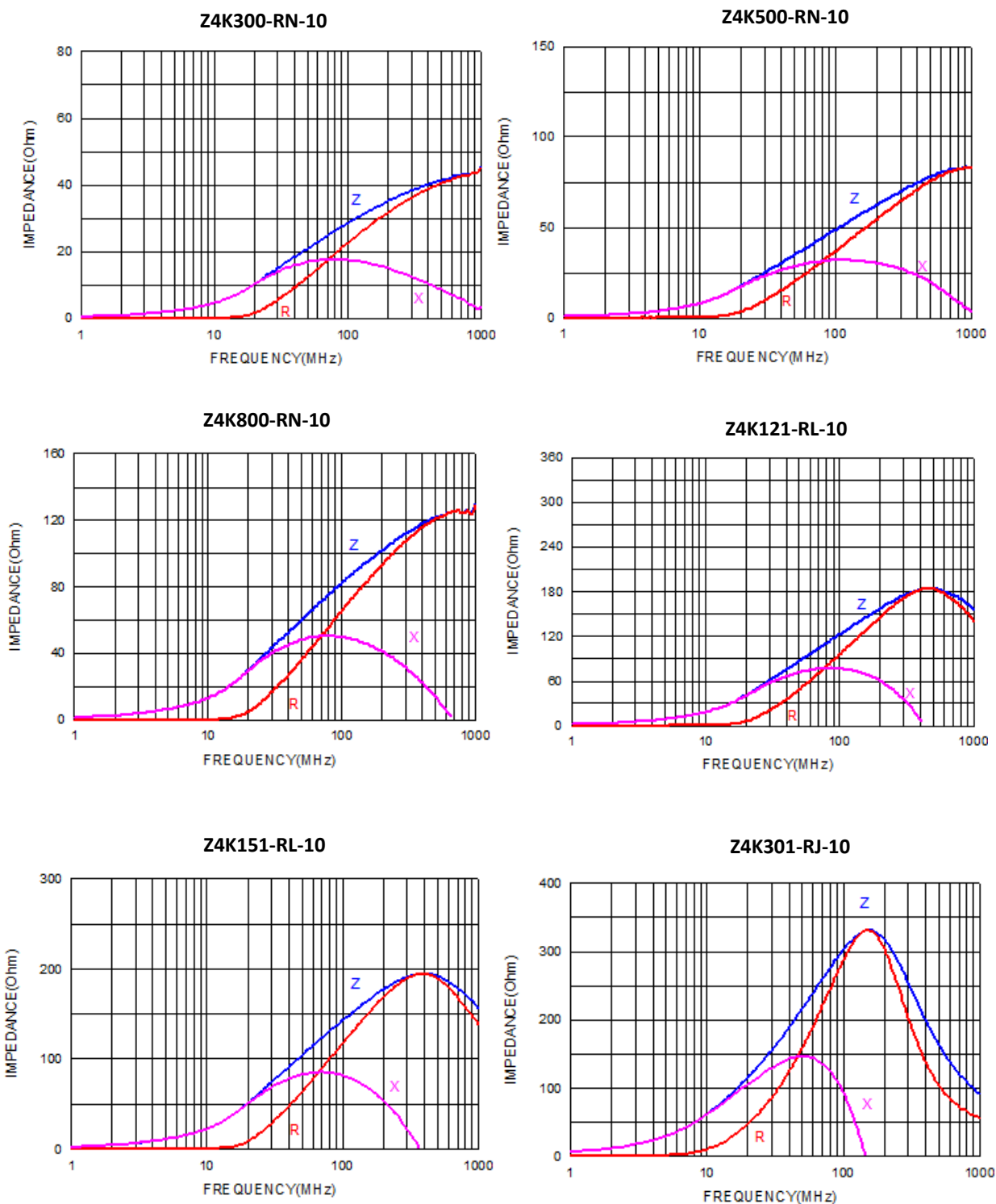
- a) Operating Temperature: - 40°C to +125°C (including self-temperature rise)
- b) Storage Condition (component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity: 60% RH

6. Electrical Characteristics

Part No.	Impedance (Ω)	Test Frequency (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
Z4K300-RN-10	30 $\pm$ 25%	100	0.04	3000
Z4K500-RN-10	50 $\pm$ 25%	100	0.04	3000
Z4K800-RN-10	80 $\pm$ 25%	100	0.04	3000
Z4K121-RL-10	120 $\pm$ 25%	100	0.10	2000
Z4K151-RL-10	150 $\pm$ 25%	100	0.10	2000
Z4K301-RJ-10	300 $\pm$ 25%	100	0.20	1000
Z4K471-RJ-10	470 $\pm$ 25%	100	0.20	1000
Z4K501-RN-10	500 $\pm$ 25%	100	0.04	3000
Z4K601-RL-10	600 $\pm$ 25%	100	0.10	2000

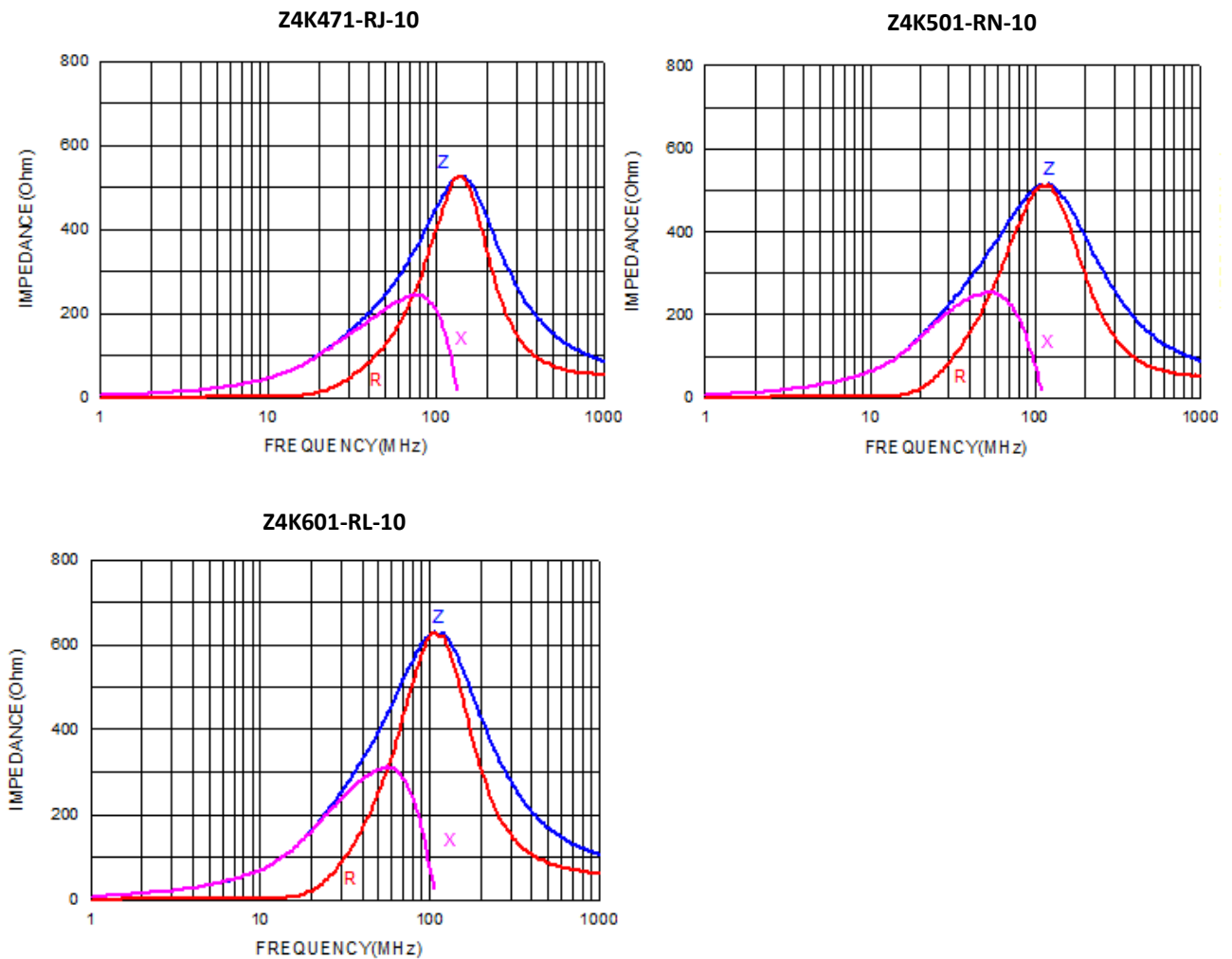
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7. Characteristics Curves



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8. Soldering

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

Note:

If wave soldering is used, there will be some risk.

Re-flow soldering temperatures below 240°C, there will be non-wetting risk

8-1.1 Solder Re-flow:

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

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8-1.2 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.
- 350°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 secs.

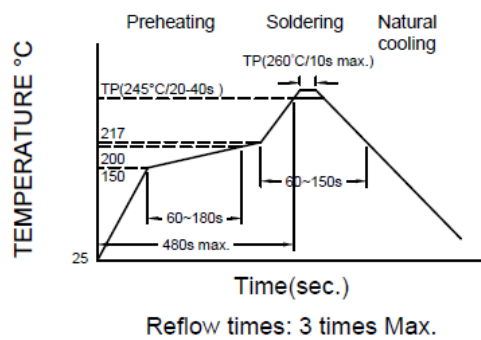


Fig.1

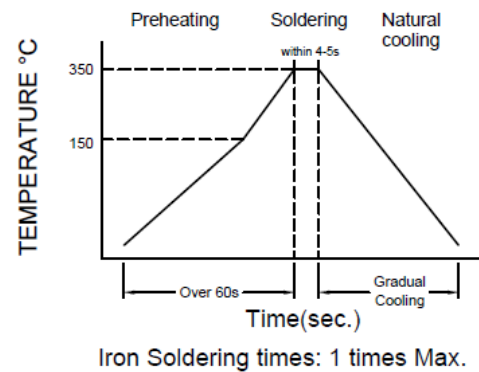


Fig.2

8-1.3 Soldering Volume:

Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceeding as shown in the Figure 3. Minimum fillet height = soldering thickness + 25% product height.

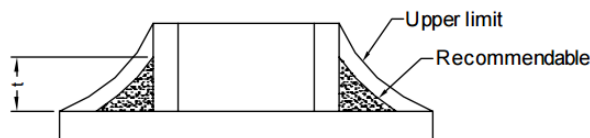
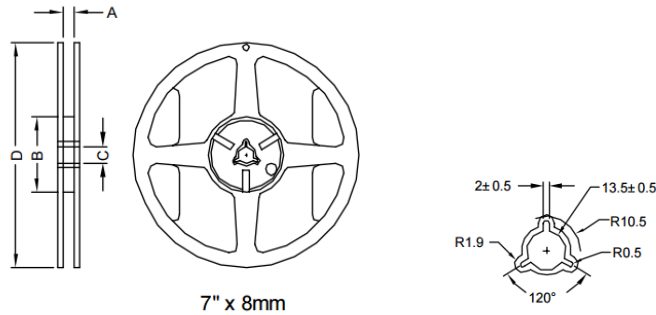


Figure 3

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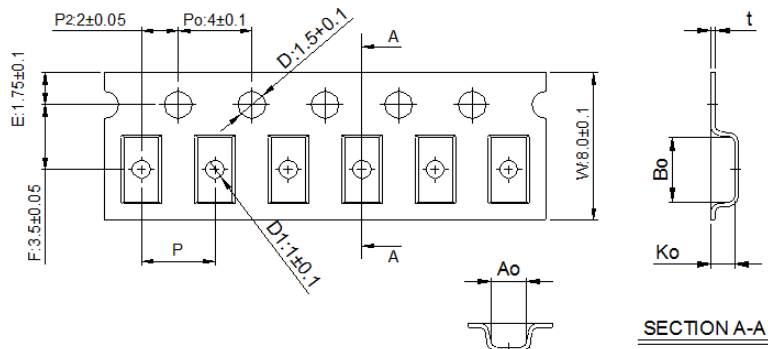
9. Packaging Information

9-1. Reel Dimension



Type	A (mm)	B (mm)	C (mm)	D (mm)
7" x 8mm	9.0 ± 0.5	60.0 ± 2.0	13.5 ± 0.5	178.0 ± 2.0

9-2. Tape Dimension



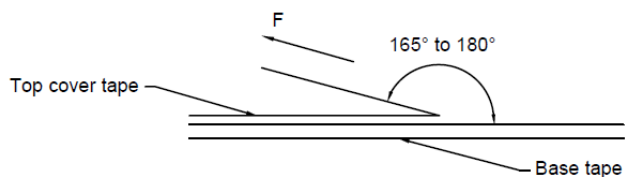
Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D(mm)
Z4	3.35±0.10	1.75±0.10	1.25±0.10	4.0±0.10	0.23±0.05	1.00±0.10

9-3. Packaging Quantity

Size	Z4
Chip/ Reel	3000
Inner Box	15000
Middle Box	75000
Carton	150000

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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

Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- Recommended products should be used within 12 months from the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation:

- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Vacuum pick up is strongly recommended for individual components.
- Bulk handling should ensure that abrasion and mechanical shock are minimized.

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