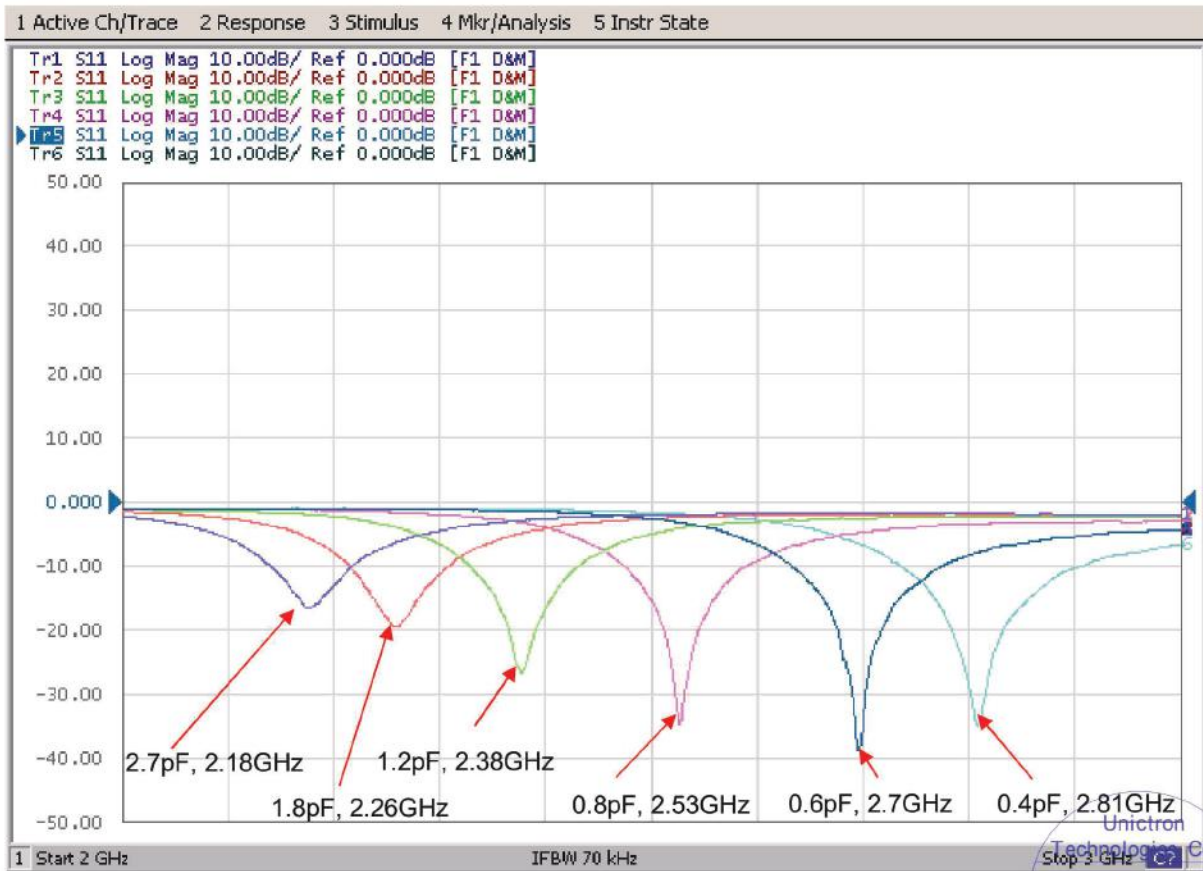
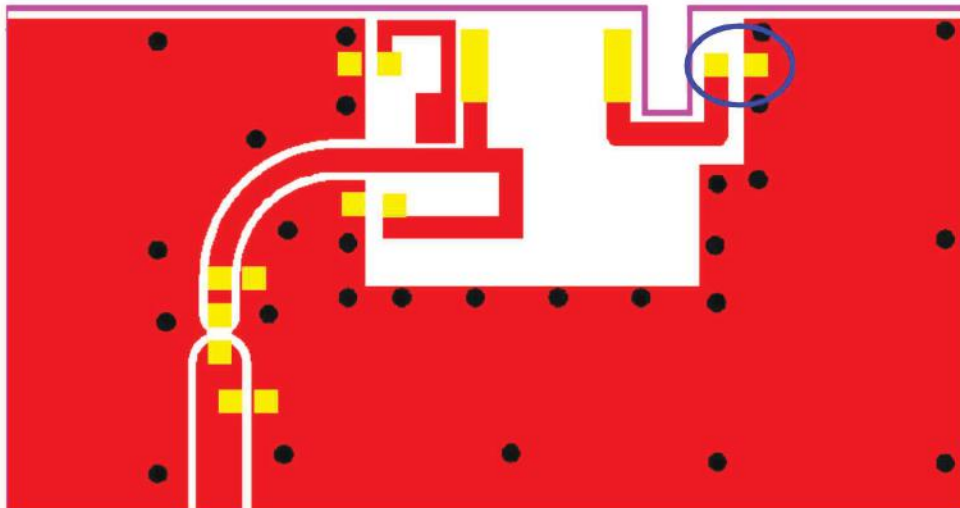


8-3. Reference for frequency tuning element 5 (2400~2500 MHz Band)



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Designed by : Peter

Checked by : Mike

Approved by : Herbert

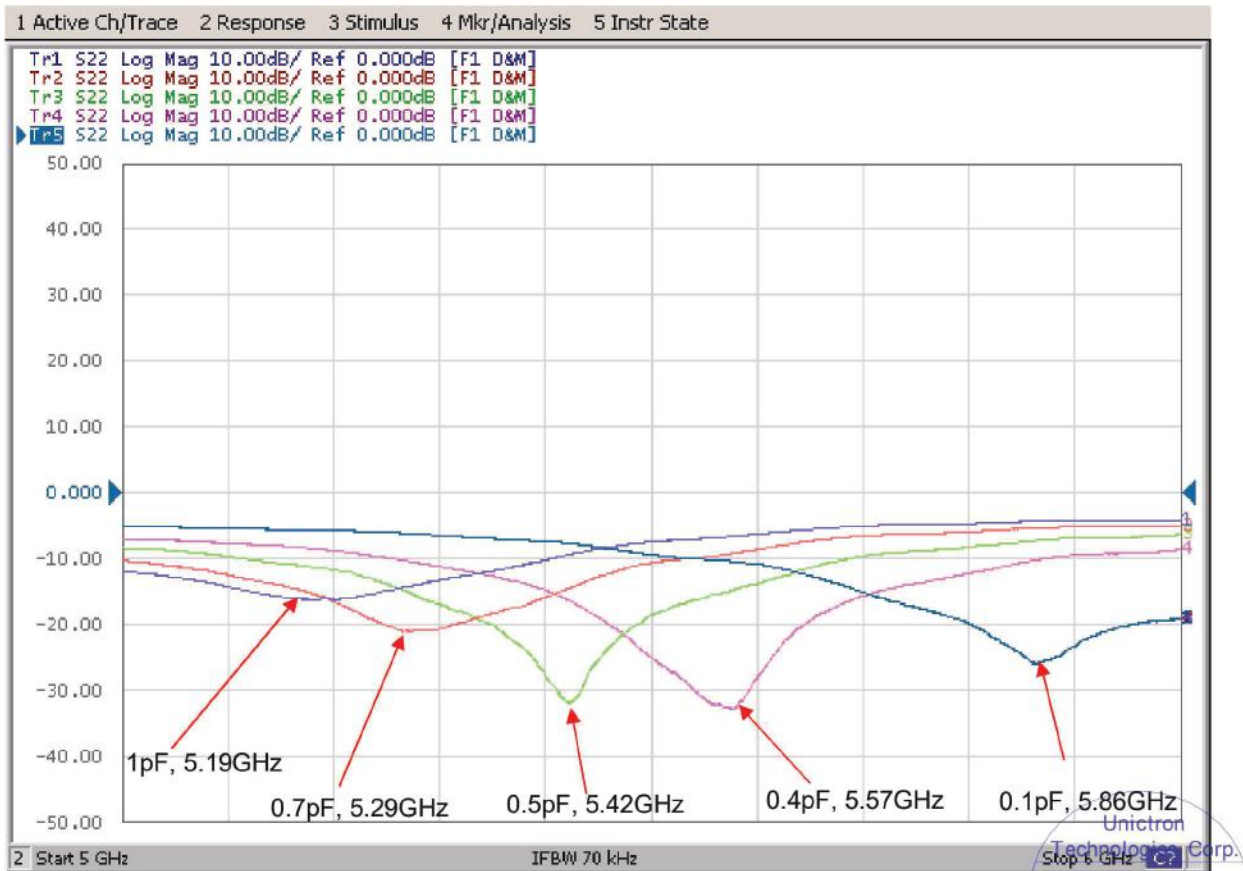
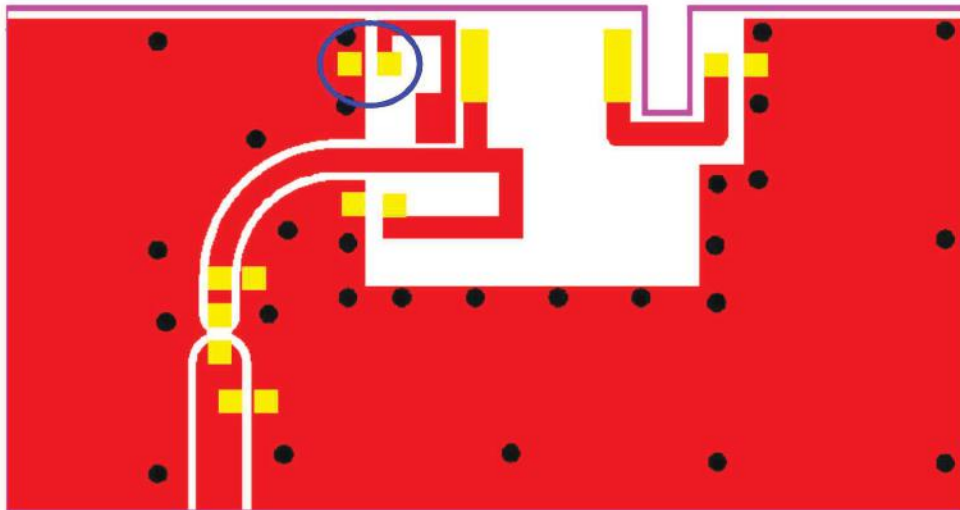
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8-4. Reference for frequency tuning element 6 (5150~5850 MHz Band)



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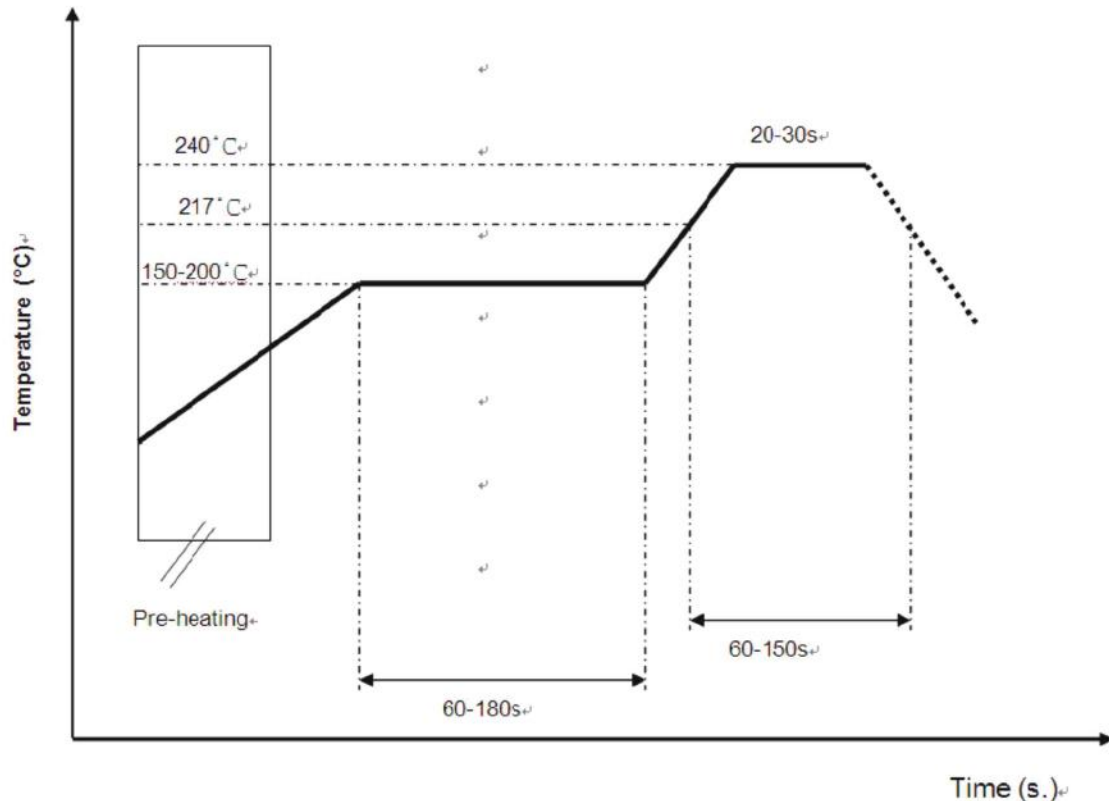
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9. Soldering Conditions

Typical Soldering Profile for Lead-free Process



*Recommended solder paste alloy: SAC305 (Sn96.5 /Ag3 /Cu0.5) Lead Free solder paste.

10. Reminders for users of Unictron's AA077 ceramic chip antennas

- 10-1. This chip antenna is made of ceramic materials which are relatively more rigid and brittle compared to printed circuit board materials. Bending of circuit board at the locations where chip antenna is mounted may cause the cracking of solder joints or antenna itself.
- 10-2. Punching/cutting of the break-off tab of PCB panel may cause severe bending of the circuit board which may result in cracking of solder joints or chip antenna itself. Therefore break-off tab shall be located away from the installation site of chip antenna.
- 10-3. Be cautious when ultrasonic welding process needs to be used near the locations where chip antennas are installed. Strong ultrasonic vibration may cause the cracking of chip antenna solder joints.

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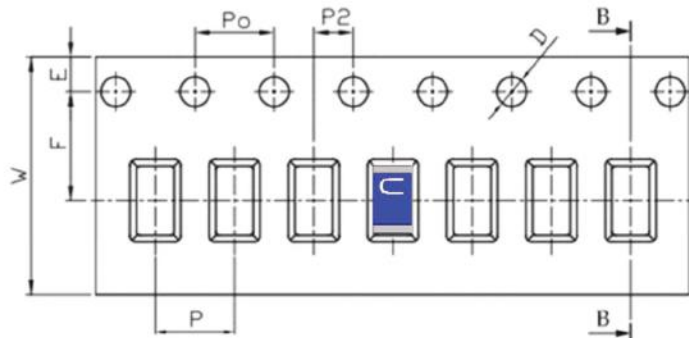
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11. Packing

- (1) Quantity/Reel: 5000 pcs/Reel
- (2) Plastic tape: Black conductive polystyrene

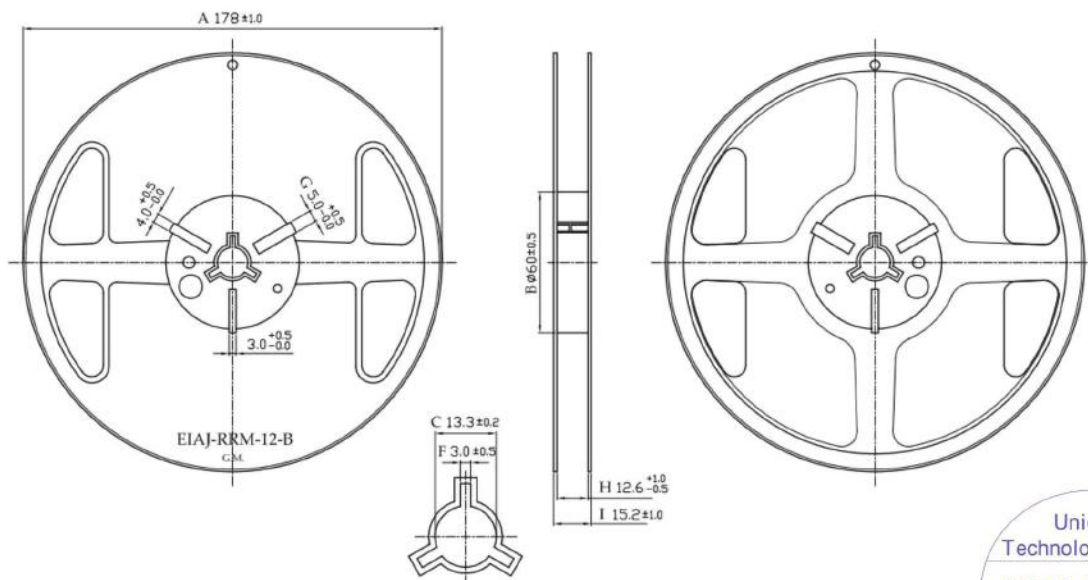
a. Tape Drawing



b. Tape Dimensions (unit: mm)

| Feature | Specifications | Tolerances |
|---------|----------------|----------------|
| W | 12.00 | ±0.30 |
| P | 4.00 | ±0.10 |
| E | 1.75 | ±0.10 |
| F | 5.50 | ±0.10 |
| P2 | 2.00 | ±0.10 |
| D | 1.50 | +0.10 -0.00 |
| P0 | 4.00 | ±0.10 |
| 10P0 | 40.00 | ±0.20 |

c. Reel Drawing



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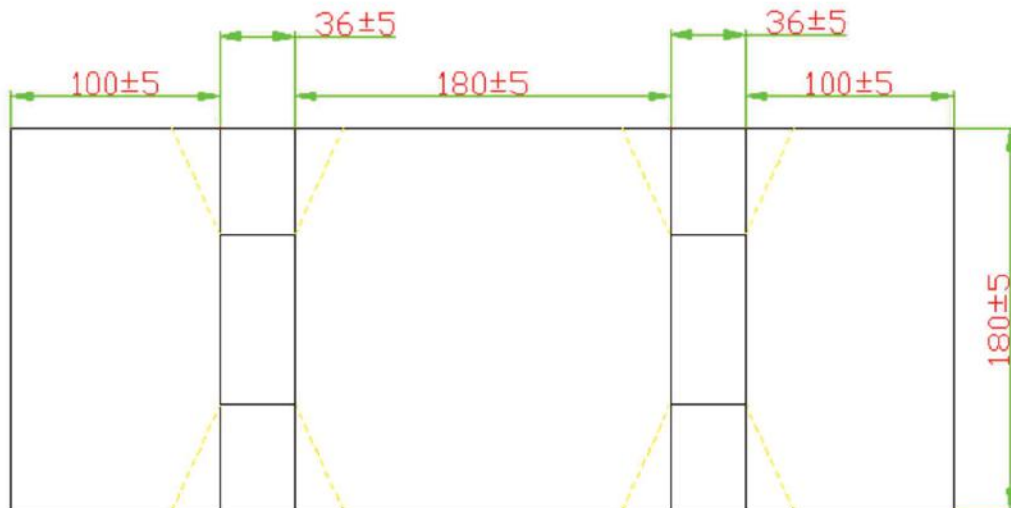
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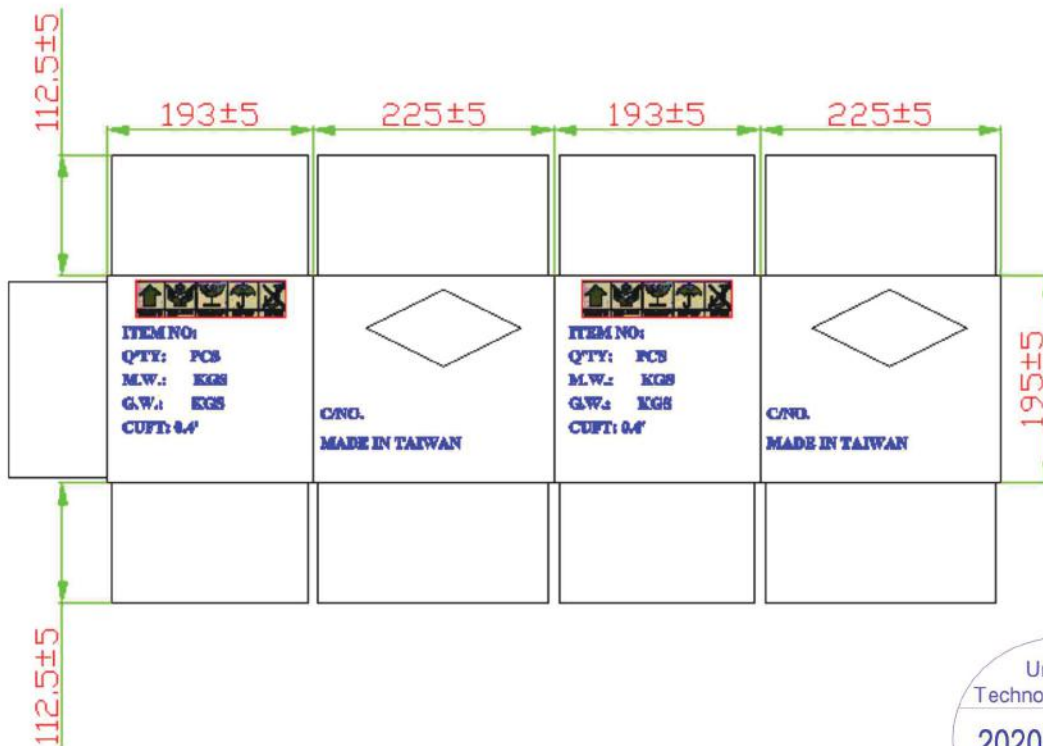
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d. Drawing of small size carton in developed view



e. Drawing of middle size carton in developed view



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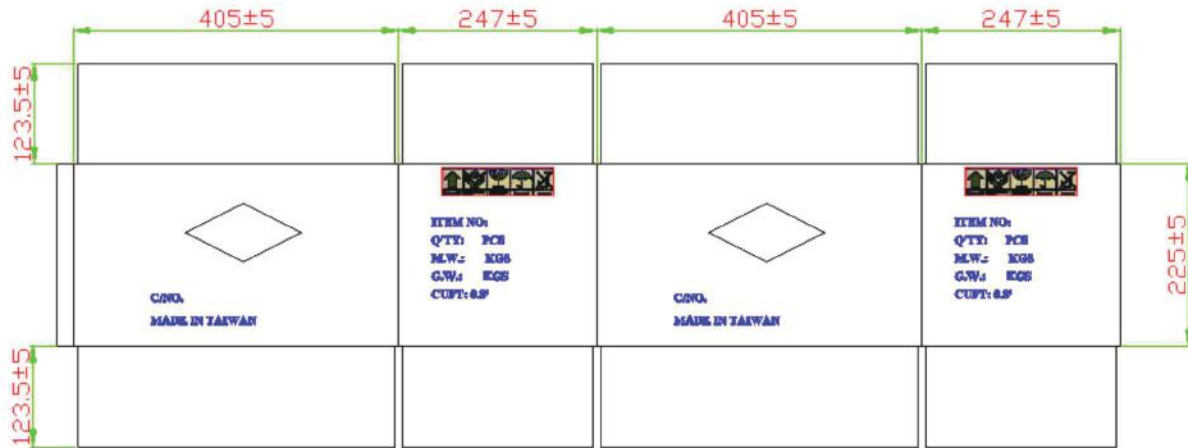
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f. Drawing of large size carton in developed view



g. Picture of label

| Unictron Technologies Corporation | |
|-----------------------------------|--|
| CUST P/N | |
| DESC | |
| P/N | |
| L/N | |
| Q"TY | |
| DATE | |



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h. Reel with label



i. Small size carton with label



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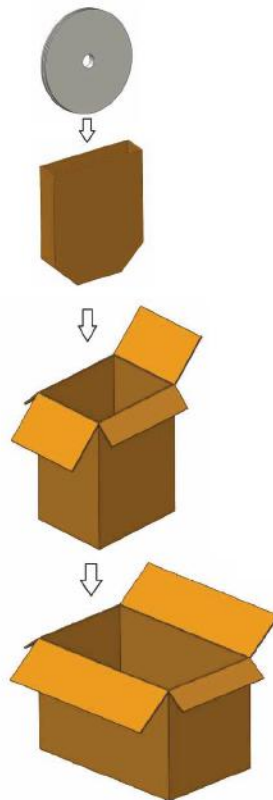
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j. Middle size carton with label



11-2. Process of packing



1 reel includes 5,000pcs(max.) chip antennas

1 small size carton includes 2pcs(max.) reels

1 middle size carton includes 5pcs(max.) small cartons

1 large size carton includes 2pcs(max.) middle cartons



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12. Operating & Storage Conditions

12-1. Operating

- (1) Maximum Input Power: 2 W
- (2) Operating Temperature: -40°C to 85°C
- (3) Relative Humidity: 10% to 70%

12-2. Storage (sealed)

- (1) Storage Temperature: -5°C to 40°C
- (2) Relative Humidity: 20% to 70%
- (3) Shelf Life: 1 year

12-3. Storage (unsealed)

Meet the criteria of J-STD-033 MSL2a

12-4. Storage (After mounted on customer's PCB with SMT process)

- (1) Storage Temperature: -40°C to 85°C
- (2) Relative Humidity: 10% to 70%

13. Notice

(1) Installation Guide:

Please refer to Unictron's application note "General guidelines for the installation of Unictron's chip antennas" for further information.

(2) All specifications are subject to change without notice.



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