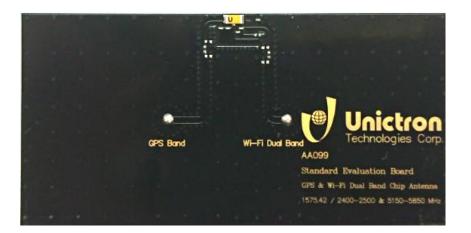
3.2 x 1.6 x 0.5 (mm) GPS & WiFi Dual Band Triple PCB Substrate Antenna (EVB +AA099) Engineering Specification

1. Product Number

H 2 B 1 A G 1 A 2 L 0 2 0 0



2. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS2.0 compliance
- *SMT processes compatible

3. Applications

- *Navigation systems or position tracking systems
- *Hand-held devices when GPS and WiFi (802.11a/b/g/n/ac) functions are needed, e.g., PDA, Smart phone, PND, Notebook computer.

4. Description

Unictron's AA099 ceramic chip antenna is designed for GPS & Wi-Fi CERTIFIED ac applications, covering frequencies 1.57542 GHz & 2.4~2.5 GHz & 5.15~5.85 GHz. Fabricated with proprietary design and processes, AA099H shows excellent performance and is fully compatible with SMT processes which can decrease the assembly cost and improve device's quality and consistency.

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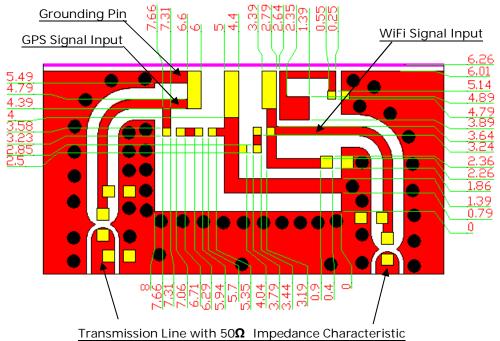
H2B1AG1A2L0200

5. Layout Guide & Electrical Specifications

5-1. Layout Guide (Unit: mm)

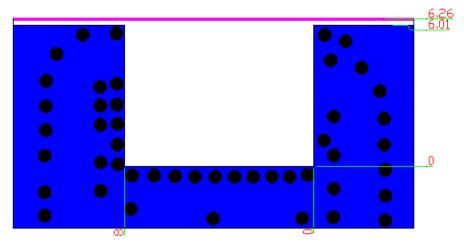
Solder Land Pattern:

The solder land pattern (gold marking areas) is shown below. Recommendation on matching circuit will be provided according to customer's installation conditions.



in Line with 50**12** impedance characte

Top View



Bottom View

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5-2. Electrical Specifications (Evaluation Board Dimensions: 80 x 40 mm²) 5-2-1. Electrical Table (GPS Band)

Charact	eristics	Specifications	Unit
Outline Dimensions	3	3.2 x 1.6 x 0.5	mm
Ground Plane Dime	ensions	80 x 40	mm
Working Frequency	1	1575.42	MHz
Isolation(S ₂₁)		≦-24 (typical)	dB
VSWR(@ center fre	equency)*	2 Max.	
Characteristic Impe	dance	50	Ω
Polarization		Linear Polarization	
Peak Gain	(@1575 42 MHz)	1.5 (typical)**	dBi
Efficiency	(@1575.42 MHz)	61 (typical)**	%

^{*}Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

5-2-2. Electrical Table (WiFi Band, 2400-2500MHz)

Charact	eristics	Specifications	Unit
Working Frequency	,	2400~2500	MHz
Isolation(S ₂₁)		≦-8 (typical)	dB
VSWR(@ center fre	equency)*	2 Max.	
Characteristic Impe	dance	50	Ω
Polarization		Linear Polarization	
Peak Gain	(@2442 MU¬)	0.4 (typical)**	dBi
Efficiency	(@2442 MHz)	50 (typical)**	%

^{*}Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

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^{**}A Typical value is for reference only, not guaranteed.

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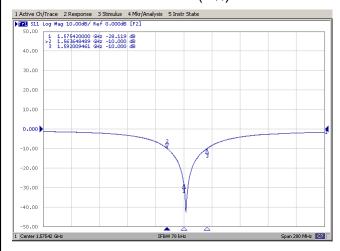
5-2-3. Electrical Table (WiFi Band, 5150-5850MHz)

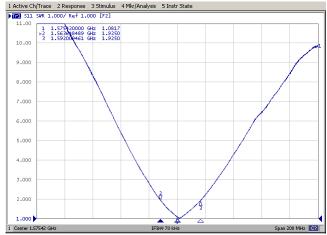
Charact	eristics	Specifications	Unit
Working Frequency	1	5150~5850	MHz
Isolation(S ₂₁)		≤-39 (typical)	dB
VSWR(@ center fre	equency)*	3 Max.	
Characteristic Impe	dance	50	Ω
Polarization		Linear Polarization	
Peak Gain	(@5550 MU¬)	2.3 (typical)**	dBi
Efficiency	(@5550 MHz)	62 (typical)**	%

^{*}Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

5-2-4. Return Loss & VSWR of GPS Band Return Loss (S₁₁)







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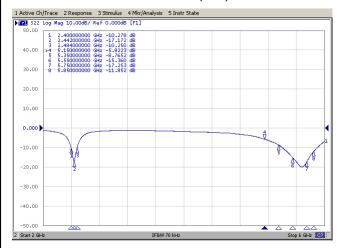
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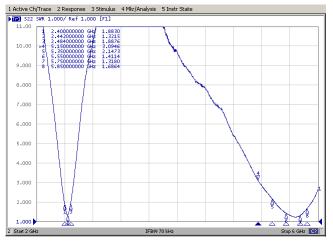
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^{**}A Typical value is for reference only, not guaranteed.

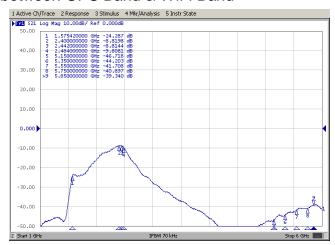
5-2-5. Return Loss & VSWR of WiFi Band Return Loss (S₁₁)







5-2-6. Isolation between GPS Band & WiFi Band



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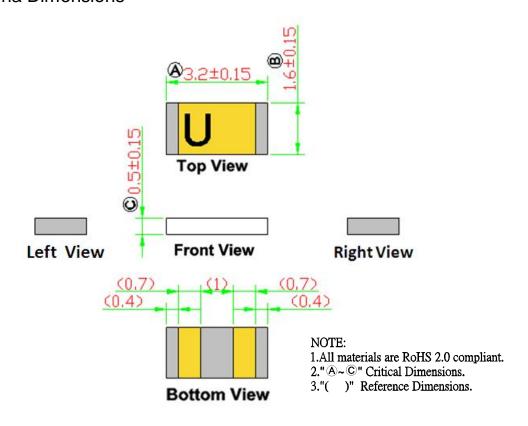
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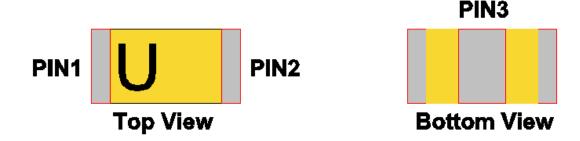
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6. Outline Dimensions of Antenna & Evaluation Board (unit: mm)

6-1. Antenna Dimensions



PIN Definitions



			Unictron
PIN	1	2	Technologies Corp.
Soldering PAD GF	PS Input	Wi-Fi dual band Input	Ground 9-20



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6-2. Evaluation Board with Antenna CPS Band Wi-Fi Dual Band CPS &Wi-Fi Dual Band Chip Antenna 1575.42 & 2409-2500 / 5150-5850 MHz

Unit: mm

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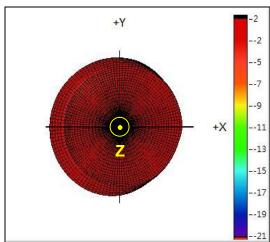
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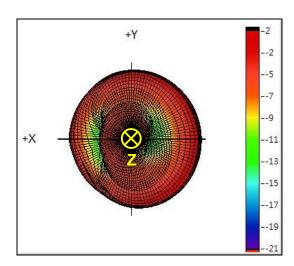
PAGE 7 **OF** 19

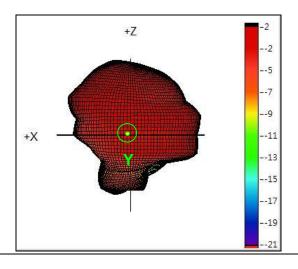
7. Radiation Pattern (with 80 x 40 mm² Evaluation Board)

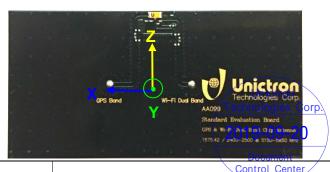
7-1. GPS Band

7-1-1. 3D Gain Pattern @ 1575.42 MHz (unit: dBi)











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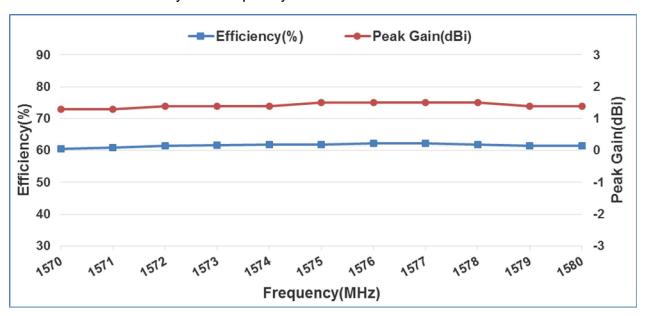
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7-1-2. 3D Efficiency Table

Frequency(MHz)	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580
Efficiency(dB)	-2.2	-2.2	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1	-2.1
Efficiency(%)	60.5	60.9	61.5	61.7	61.8	61.9	62.2	62.2	61.9	61.5	61.5
Peak Gain(dBi)	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4

7-1-3. 3D Efficiency vs. Frequency



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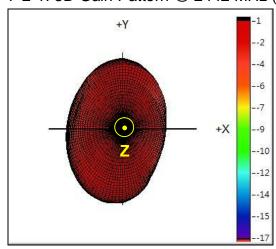
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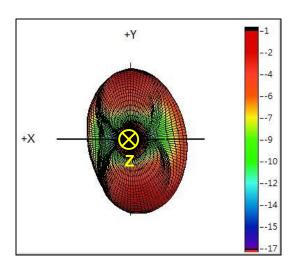
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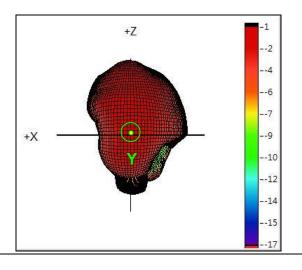
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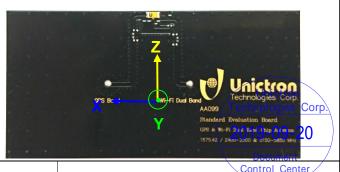
7-2. WiFi Band (2400~2500 MHz)

7-2-1. 3D Gain Pattern @ 2442 MHz (unit: dBi)











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Substrate Antenna (EVB+AA099) Engineering Specification

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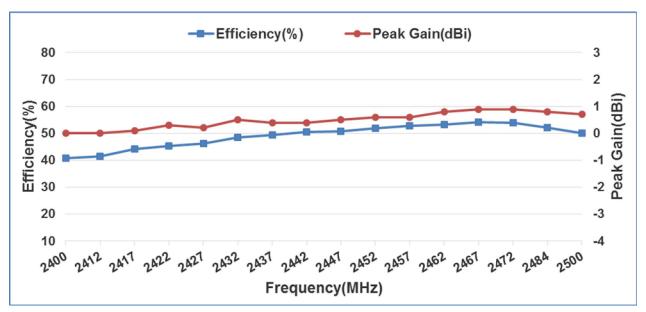
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7-2-2. 3D Efficiency Table

Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-3.9	-3.8	-3.6	-3.4	-3.4	-3.1	-3.1	-3.0	-2.9	-2.8	-2.8	-2.7	-2.7	-2.7	-2.8	-3.0
Efficiency(%)	40.8	41.5	44.1	45.2	46.2	48.5	49.3	50.5	50.7	51.9	52.7	53.2	54.2	53.9	52.2	50.1
Peak Gain(dBi)	0.0	0.0	0.1	0.3	0.2	0.5	0.4	0.4	0.5	0.6	0.6	0.8	0.9	0.9	8.0	0.7

7-2-3. 3D Efficiency vs. Frequency



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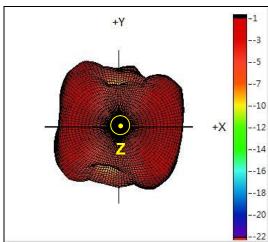
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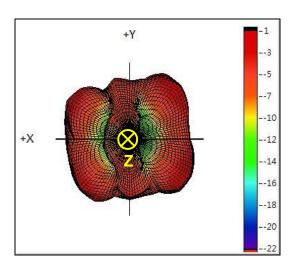
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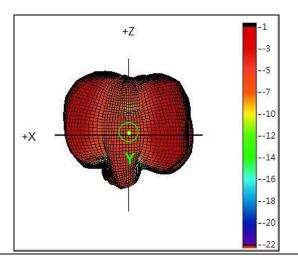
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7-3. WiFi Band (5150~5850 MHz)

7-3-1. 3D Gain Pattern @ 5150 MHz (unit: dBi)











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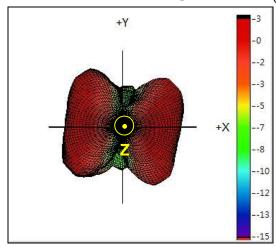
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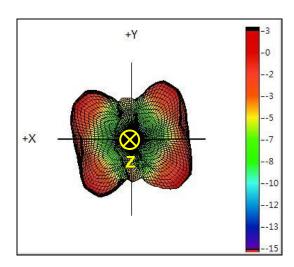
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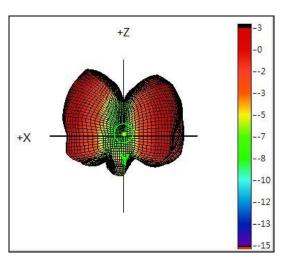
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7-3-2. 3D Gain Pattern @ 5550 MHz (unit: dBi)









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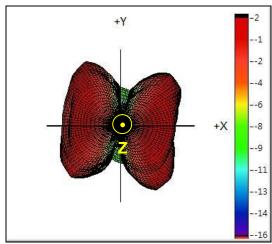
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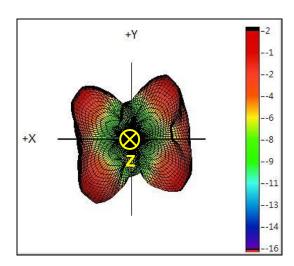
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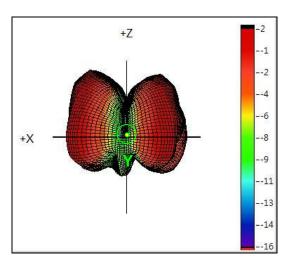
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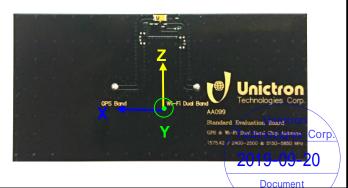
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7-3-3. 3D Gain Pattern @ 5850 MHz (unit: dBi)











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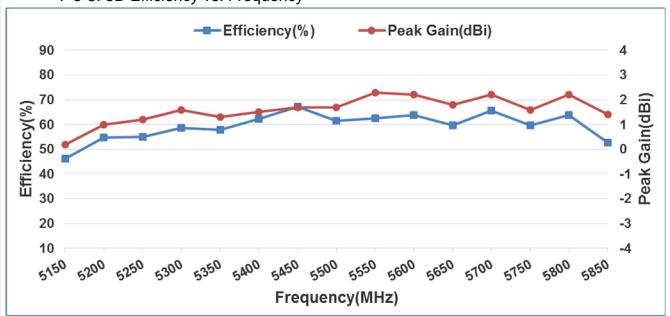
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7-3-4. 3D Efficiency Table

Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Efficiency(dB)	-3.3	-2.6	-2.6	-2.3	-2.4	-2.1	-1.7	-2.1	-2.0	-2.0	-2.2	-1.8	-2.2	-2.0	-2.8
Efficiency(%)	46.3	54.8	54.9	58.7	57.9	62.2	67.3	61.6	62.6	63.7	59.8	65.6	59.6	63.7	52.7
Peak Gain(dBi)	0.2	1.0	1.2	1.6	1.3	1.5	1.7	1.7	2.3	2.2	1.8	2.2	1.6	2.2	1.4

7-3-5. 3D Efficiency vs. Frequency



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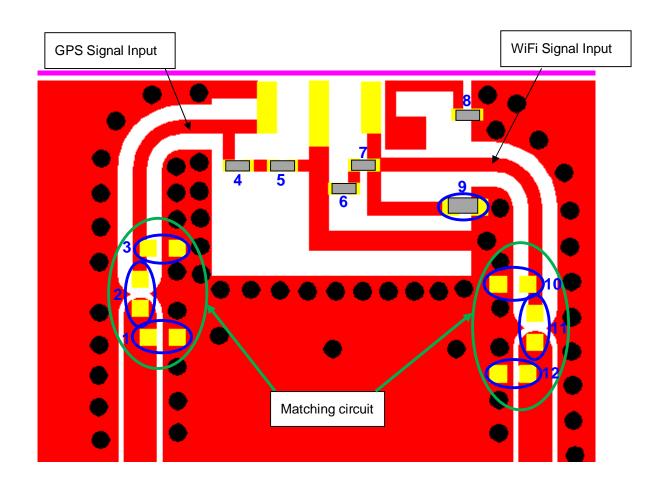
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Specification

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8. Frequency tuning and Matching circuit

8-1. Chip antenna tuning scenario:



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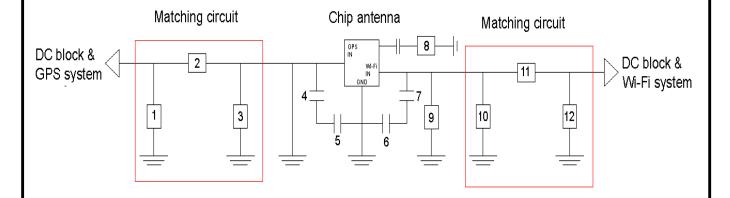
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8-2. Matching circuit:

With the following recommended values of matching and tuning components, the center frequencies will be about 1575.42 MHz on GPS band and 2442 MHz for F_L & 5550 MHz for F_H on WiFi band at our standard 80x40 mm² evaluation board. However, these are typical reference values which may need to be changed when circuit boards or part vendors are different.



System Matching Circuit Component							
Location	Description	Vendor	Tolerance				
1	N/A*						
2	0Ω, (0402)	-	±5%				
3	N/A*						
4 Fine tuning element	1.8pF, (0201)	MURATA	±0.05pF				
5 Fine tuning element	0.8pF, (0201)	MURATA	±0.05pF				
6 Fine tuning element	0.9pF, (0201)	MURATA	±0.05pF				
7 Fine tuning element	0.9pF, (0201)	MURATA	±0.05pF				
8 Fine tuning element	0.4pF, (0201)	MURATA	±0.05pF				
9	0Ω, (0402)	-	±5%				
10	N/A*						
11	0Ω, (0402)	-	±5%				
12	N/A*						
DC Block	22pF, (0402)	MURATA	±5%				

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Prepared by : Jane Designed by : Ken Checked by : Mike Approved by : Herbert

TITLE: 3.2 x 1.6 x 0.5 (mm) GPS & WiFi Dual Band Triple PCB
Substrate Antenna (EVB+AA099) Engineering
Specification

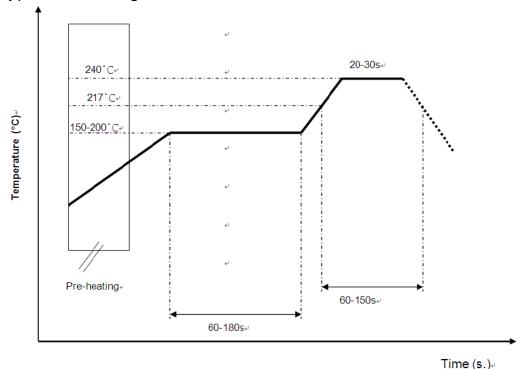
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9. Soldering Conditions

9-1. 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 AA099 ceramic chip antennas

- 10-1. This chip antenna is made of ceramic materials which are relatively more rigid and brittle compared to circuit board materials. Furthermore, the length of this antenna is quite long. 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 record cause the cracking of chip antenna solder joints.

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11. Operating & Storage Conditions

11-1. Operating

(1) Maximum Input Power: 2 W

(2) Operating Temperature: -40°C to 85°C

11-2. Storage

(1) Storage Temperature: -5° C to 40° C

(2) Relative Humidity: 20% to 70%

(3) Shelf Life: 1 year

12. 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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