产品规格承认书

SPECIFICATIONS

	客户:								
	CUSTOMER: _								
	产品名称:								
	DESCRIPTION	v:	Bip	olar an	ten	na			
	客户型号:								
	CUSTOMER PA	ART No:_							
	产品型号:	_					_		
	OUR MODEL N	NO:	P	BX3216M	A01				
	日期:								
	DATE:								
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NO.

3216

TITLE: CHIP2450-3216 Specification

PBX3216MA01 Specification

Operating Temp. : -40 ℃~+85 ℃

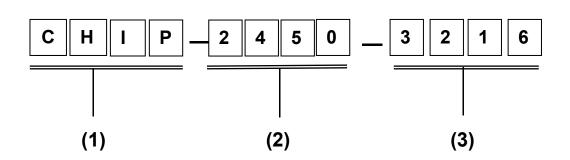
1. FEATURES:

- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain

2. APPLICATIONS:

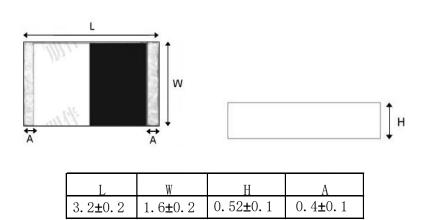
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION



- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 3.2*1.6

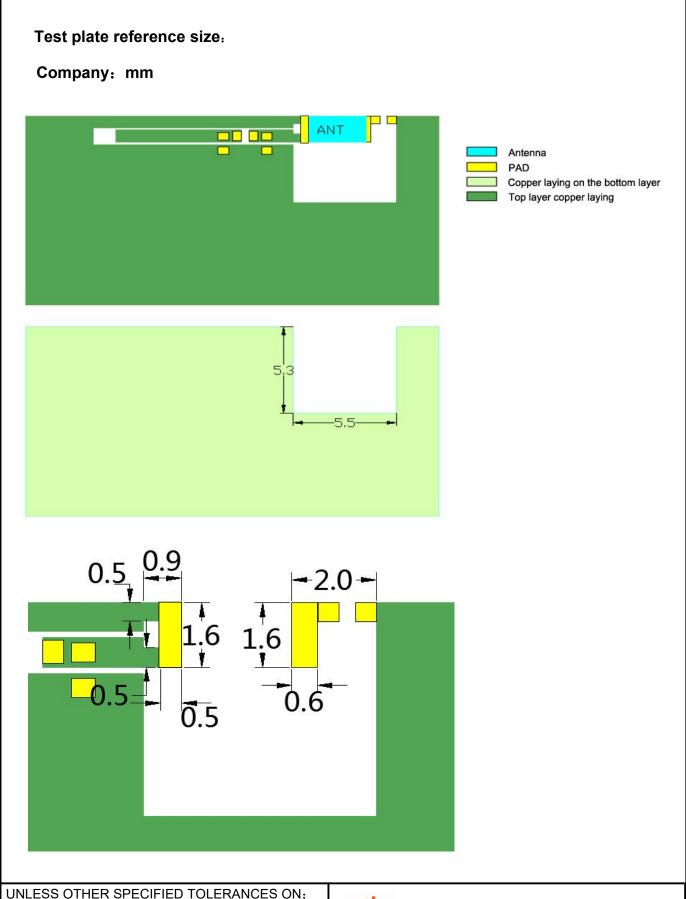
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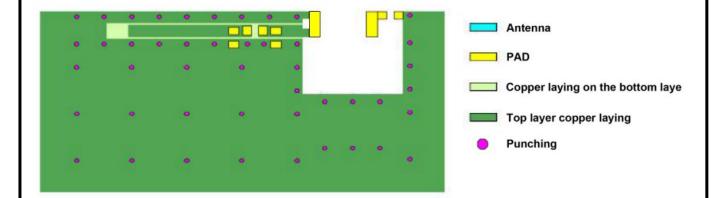
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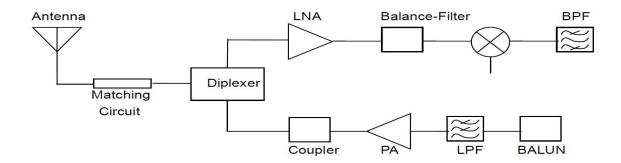
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Hole punching reference diagram



APPLICATION GUIDE



5. SPECIFICATIONS:

Test Item	Specifications		
Bandwidth	2400-2483MHz		
Polarization mode	Linear polarization		
* Maximum gain	2.67dBi		
* Efficiency	72.3%		
Input Impedance	50Ω		

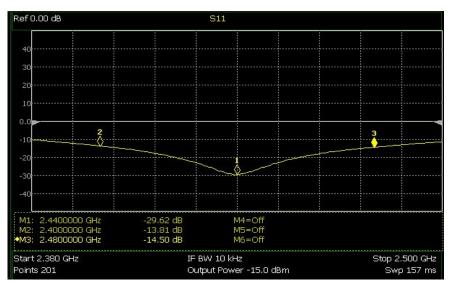
* Test condition: Test board size 90*40 mm

Matching circuit: Pi matching circuit will be required

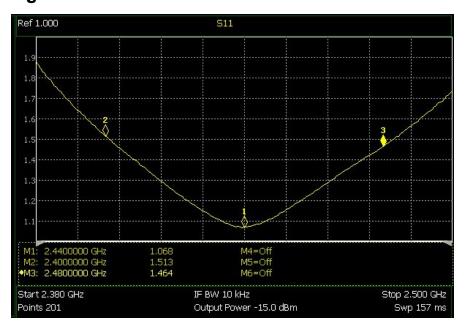
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6. Electrical Characteristics:

Return loss



Standing wave ratio



Mark	Frequency	VSWR
1	2400 MHz	1.513
2	2440 MHz	1.068
3	2480 MHz	1.464

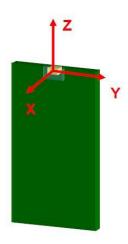
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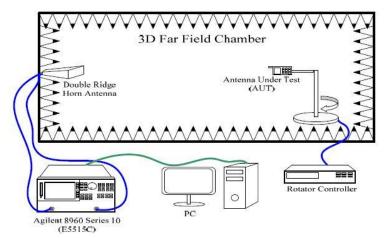
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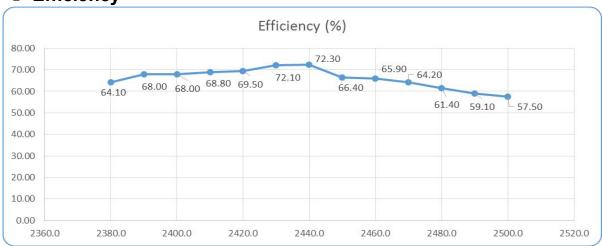
Radiation Pattern

The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator,a standard horn antenna and Vector Network Analyzer is used to collect data.

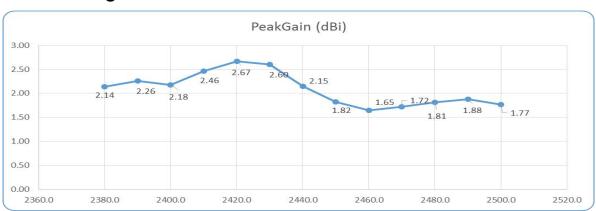




© Efficiency



Maximum gain

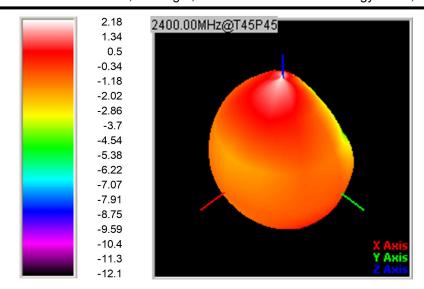


3D Gain Pattern (2400 MHz)

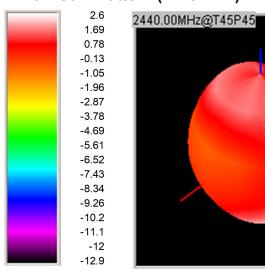
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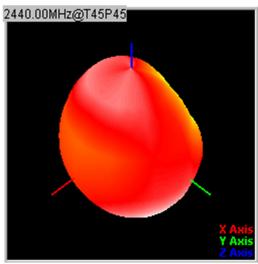
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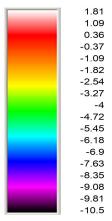


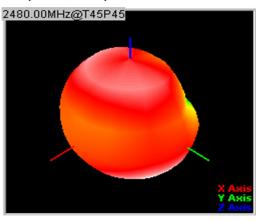
O 3D Gain Pattern (2440 MHz)





3D Gain Pattern (2480 MHz)





7. Environmental Characteristics

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(1) Reliability Test

Item	Condition	Specification
Thermal shock	 30±3 minutes at -40° C±5° C, Convert to +105° C (5 minutes) 30±3 minutes at +105° C±5° C, Convert to -40° C (5 minutes) Total 100 continuous cycles 	No apparent damage Fulfill the electrical spec. after test.
Humidity resistance	1. Humidity: 85% R.H. 2. Temperature: 85±5° C 3. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
High temperature resistance	1. Temperature: 150° C $\pm 5^{\circ}$ C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Low temperature resistance	1. Temperature: -40° C $\pm 5^{\circ}$ C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Soldering heat resistance	1. Solder bath temperature : $260\pm5^{\circ}$ C 2. Bathing time: 10 ± 1 seconds	No apparent damage
Solderability	The dipped surface of the terminal shall be at least 95% covered with solder after dipped in solder bath of $245\pm5^\circ\mathrm{C}$ for 3 ± 1 seconds.	No apparent damage

(2) Storage Condition

(a) At warehouse:

The temperature should be within $0 \sim 30^{\circ}$ C and humidity should be less than 60% RH.

The product should be used within 1 year from the time of delivery.

(b) On board:

The temperature should be within -40~85°C and humidity should be less than 85% RH.

(3) Operating Temperature Range

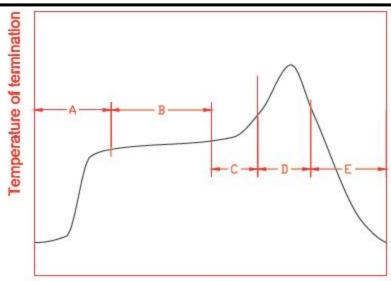
Operating temperature range : -40° C to $+105^{\circ}$ C.

8. Recommended Reflow Soldering

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Time

Α	1 st rising temperature	The normal to Preheating temperature	30s to 60s
В	Preheating	140°C to 160°C	60s to 120s
С	2 nd rising temperature	Preheating to 200°C	20s to 40s
		if 220°C	50s∼60s
		if 230°C	40s∼50s
D	Main heating	if 240°C	30s~40s
	24 C	if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular cooling	200°C to 100°C	1°C/s ~ 4°C/s
	20000 000		

^{*}reference: J-STD-020C

(1) Soldering Gun Procedure

Note the follows, in case of using solder gun for replacement.

- (a) The tip temperature must be less than 350° C for the period within 3 seconds by using soldering gun under 30 W.
 - (b) The soldering gun tip shall not touch this product directly.

(2) Soldering Volume

Note that excess of soldering volume will easily get crack the body of this product.

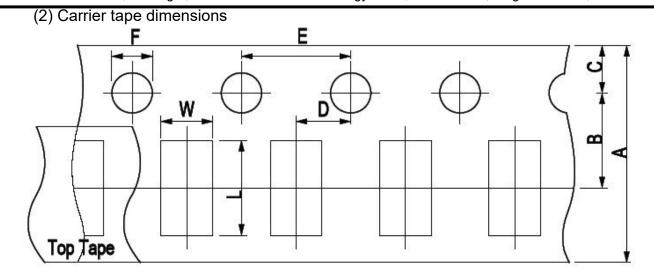
9. Taping Package and Label Marking: (unit: mm)

(1) Quantity/Reel: 5000pcs/Reel

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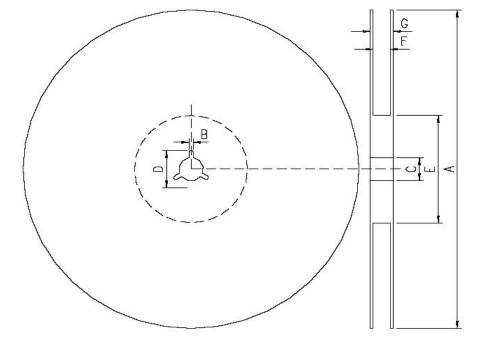
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Type	A	В	С	D	Е	F	L	W
2450-21	8.00 ± 0.3	3.50 ± 0.05	1.75 ± 0.1	2.00 ± 0.05	4.00 ± 0.1	1.50 ± 0.1	2.30 ± 0.1	1.55 \pm 0.1

(3) Taping reel dimensions



Α	178.0±2.0
В	2.0±0.5
С	13.0±0.5
D	21.0±0.8
Ε	62.0±1.5
F	9.0±0.5
G	13.0±1.0

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