	产	品规	R格承·	认书		
	SP	ECIF	ICATI	ONS	5	
客户:						
CUSTOM	ER:					
产品名	称:					
,	PTION:		双极天线	Bi pol ar	<u>anten</u> na	
客户型				-		
CUSTOM	ER PART No:					
产品型						
OUR MO	DEL NO:	PI	BX3216MA	01		
日期:						
DATE:						
PLEASE	,盖章后请返回; RETURN TO US OUR APPROVED \$	ONE COP	Y OF "SPEC	IFICATIO	ON FOR APPROVA	L <b>"</b>
核准		审核	刘飞	制作	刘小美	
	客户承认签印	٦ D				
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SCALE: N/A DRAWN BY : Sera DESIGNED BY: Sera	DRAWN BY : Sera CHECKED BY: XD		THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBX TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED A THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OI DEVICES WITHOUT PERMISSION			OR USED AS
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**P1** 

## **PBX3216MA01 Specification**

Operating Temp. : -40 ℃~+85 ℃

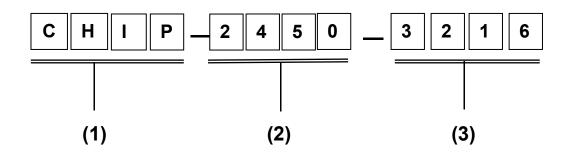
## **1. FEATURES:**

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

### **2. APPLICATIONS:**

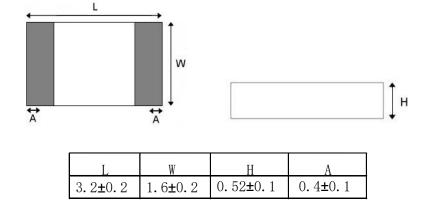
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

## **3. PRODUCT IDENTIFICATION**

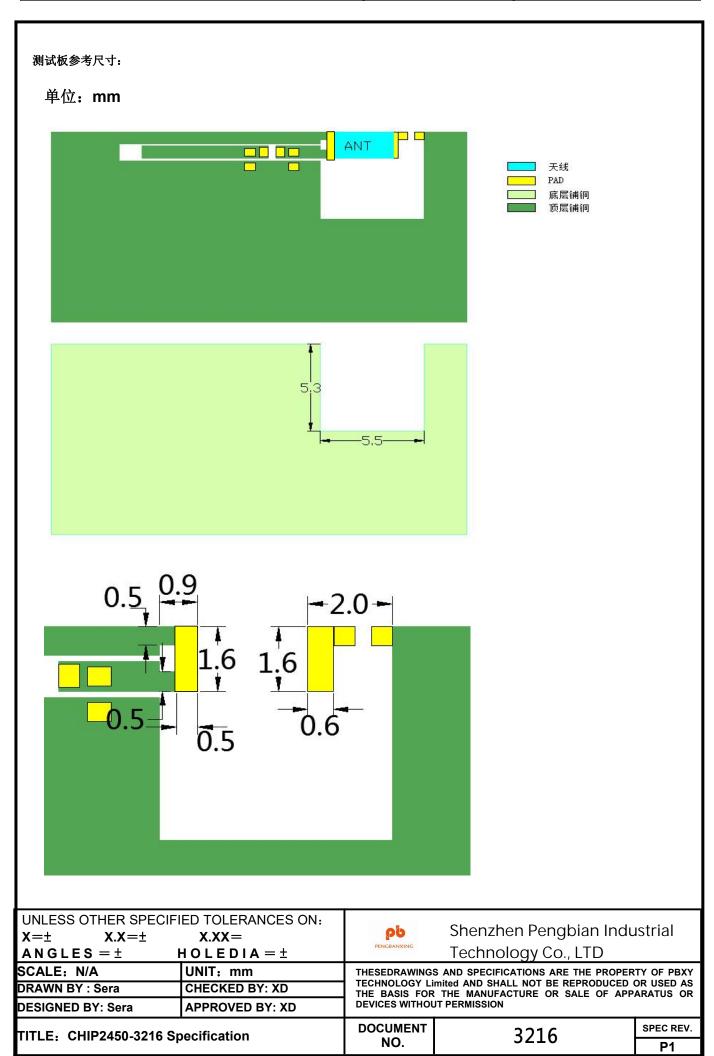


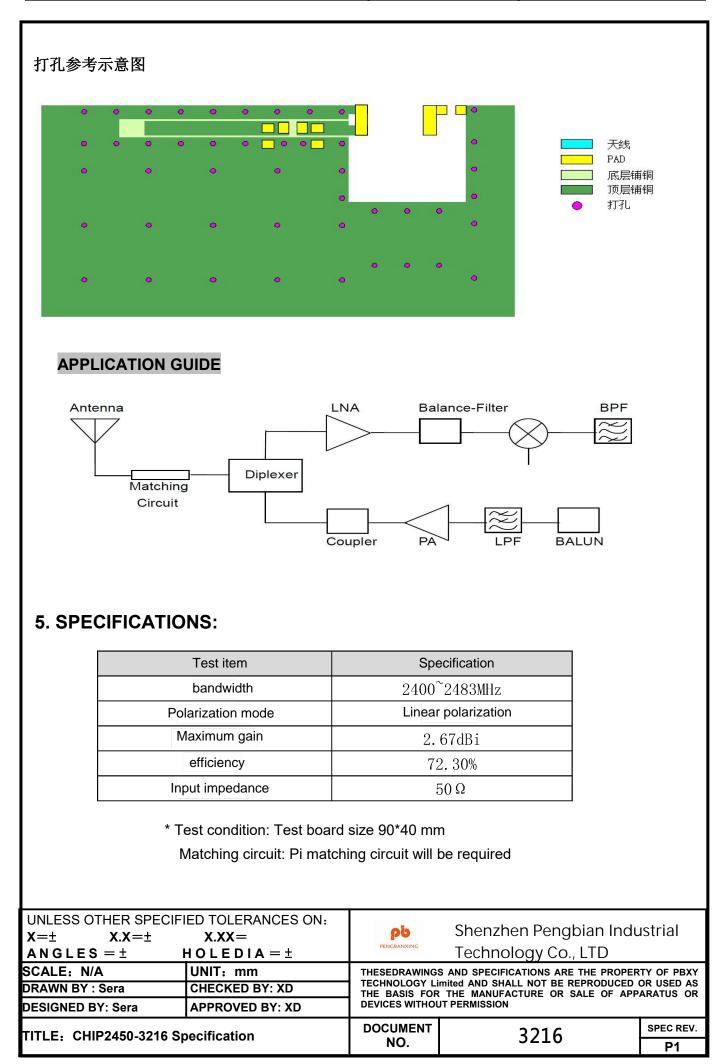
- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 3.2\*1.6

# 4. SHAPE AND DIMENSIONS:



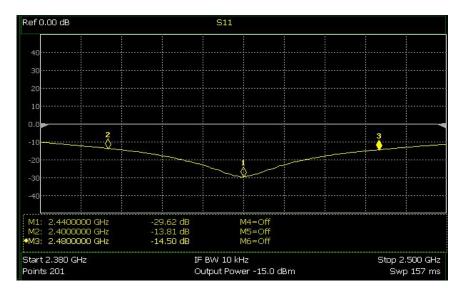
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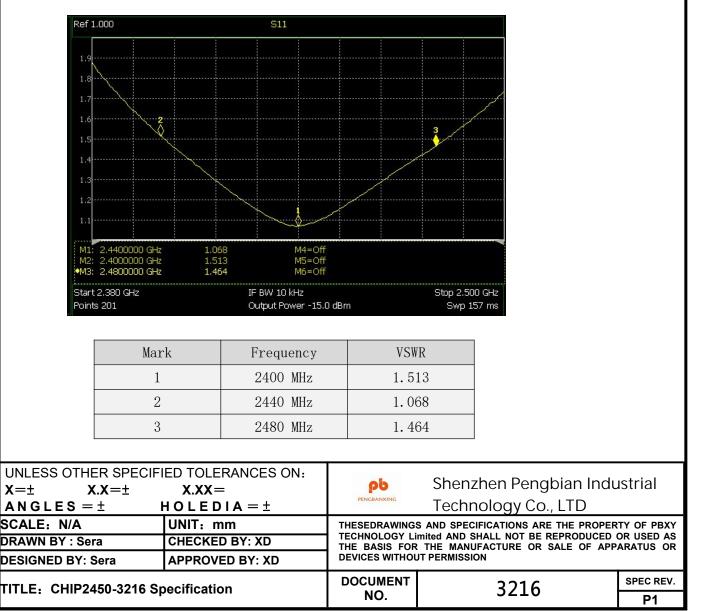


# 6. Electrical Characteristics :

# 回波损耗

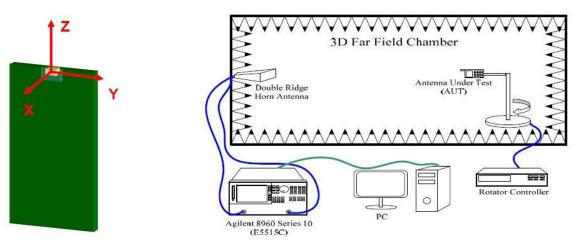


## 驻波比

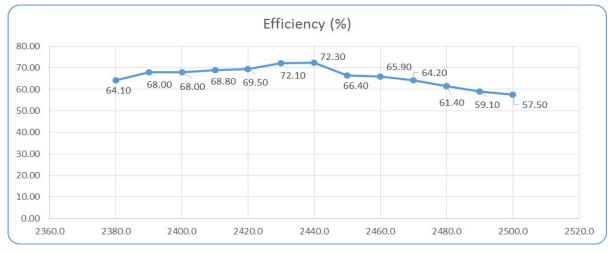


### **Radiation Pattern**

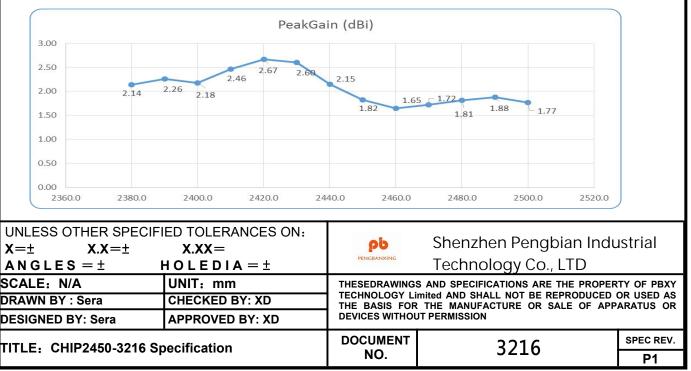
The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.

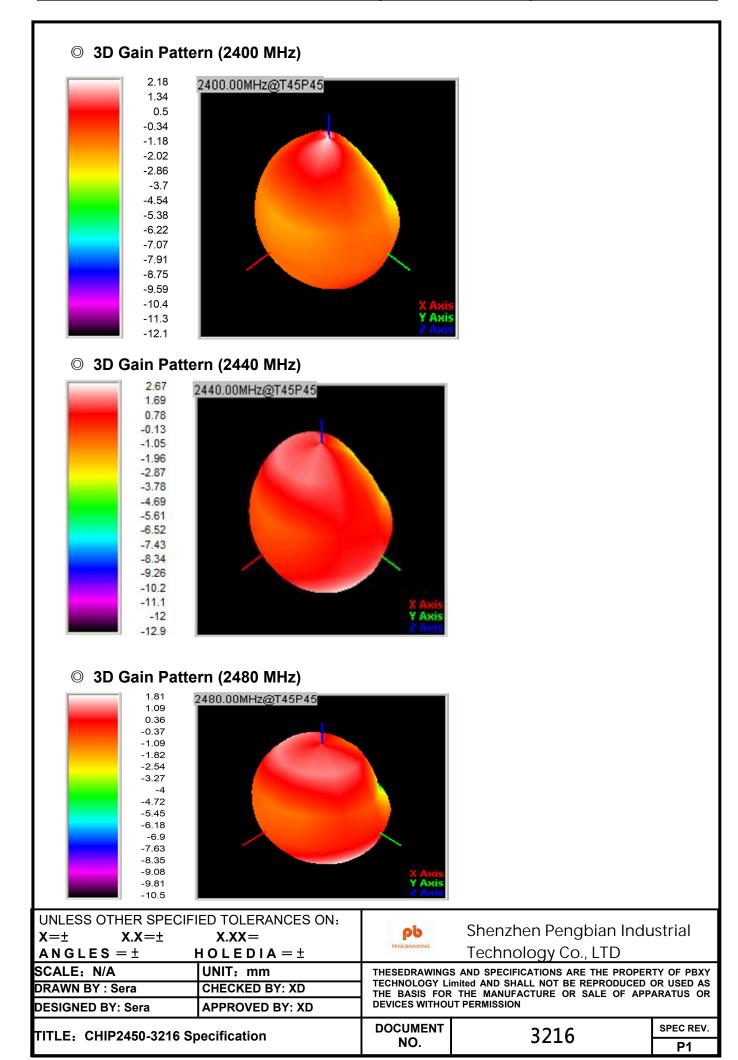


◎ 效率



最大增益





# 7. Environmental Characteristics

## (1) Reliability Test

Item	Condition	Specification	
Thermal shock	1. $30 \pm 3$ minutes at $-40^{\circ} C \pm 5^{\circ} C$ , 2. Convert to $+105^{\circ} C$ (5 minutes) 3. $30 \pm 3$ minutes at $+105^{\circ} C \pm 5^{\circ} C$ , 4. Convert to $-40^{\circ} C$ (5 minutes) 5. Total 100 continuous cycles	No apparent damage Fulfill the electrical spec. after test.	
Humidity resistance	1. Humidity: 85% R.H. 2. Temperature: $85\pm5^{\circ}$ C 3. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
High temperature resistance	1. Temperature: 150°C±5°C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
Low temperature resistance	1. Temperature: -40° C±5° C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
Soldering heat resistance	1. Solder bath temperature : 260±5℃ 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 $245\pm5^\circ$ for $3\pm1$ 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  $^\circ \! \mathbb{C}$  to +105  $^\circ \! \mathbb{C}$  .

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## 8. Recommended Reflow Soldering **Temperature of termination** Time The normal to Preheating 1st rising temperature A 30s to 60s temperature В 140°C to 160°C 60s to 120s Preheating 2<sup>nd</sup> rising temperature Preheating to 200°C 20s to 40s C 50s~60s if 220°C if 230°C 40s~50s if 240°C 30s~40s D Main heating if 250°C 20s~40s if 260°C 20s~40s

\*reference: J-STD-020C

Regular cooling

E

## (1) Soldering Gun Procedure

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

200°C to 100°C

(a) The tip temperature must be less than 350° C for the period within 3 seconds by using soldering gun under 30 W.

1°C/s ~ 4°C/s

(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.

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		NO.	5210	P1



(1) Quantity/Reel: 5000pcs/Reel

