产品规格承认	书
--------	---

SPECIFICATIONS

	SPECIFI	CAIN	UNJ
客户:			
CUSTOMER:			
产品名称: DESCRIPTION: 客户型号: CUSTOMER PART 产品型号: OUR MODEL NO: 日期:		<u>双极天线</u> [(3216MA	<u>Bipolar anten</u> na
UNLESS OTHER SPECIFIED	TOLERANCES ON: X.XX=	ρυ	Shenzhen Pengbian Indu
	LEDIA = ±	PENGBANXING	Technology Co., LTD

UNLESS OTHER SPECIFIED TOLERANCES ON:		-	Chanzban Danabian Indu	otrial
$X=\pm$ $X.X=\pm$	X.XX=	pb	Shenzhen Pengbian Indu	Istrial
$ANGLES = \pm$	$HOLEDIA = \pm$	PENGBANXING	Technology Co., LTD	
SCALE: N/A	UNIT: mm	THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBX		
DRAWN BY : Sera	CHECKED BY: XD	TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR		
DESIGNED BY: Sera	APPROVED BY: XD	DEVICES WITHOUT PERMISSION		
TITLE: CHIP2450-3216 Specification		DOCUMENT	3216	SPEC REV.
		NO.	5210	P1

PBX3216MA01 Specification

Operating Temp. : -40 ℃~+85 ℃

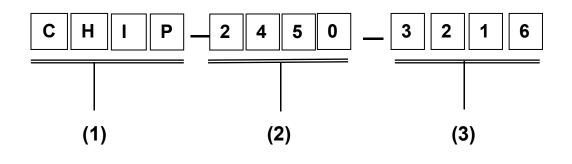
1. FEATURES:

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

2. APPLICATIONS:

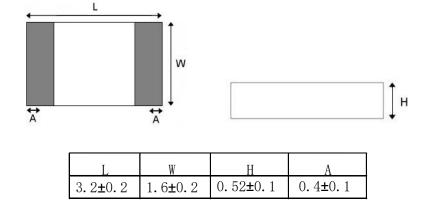
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION

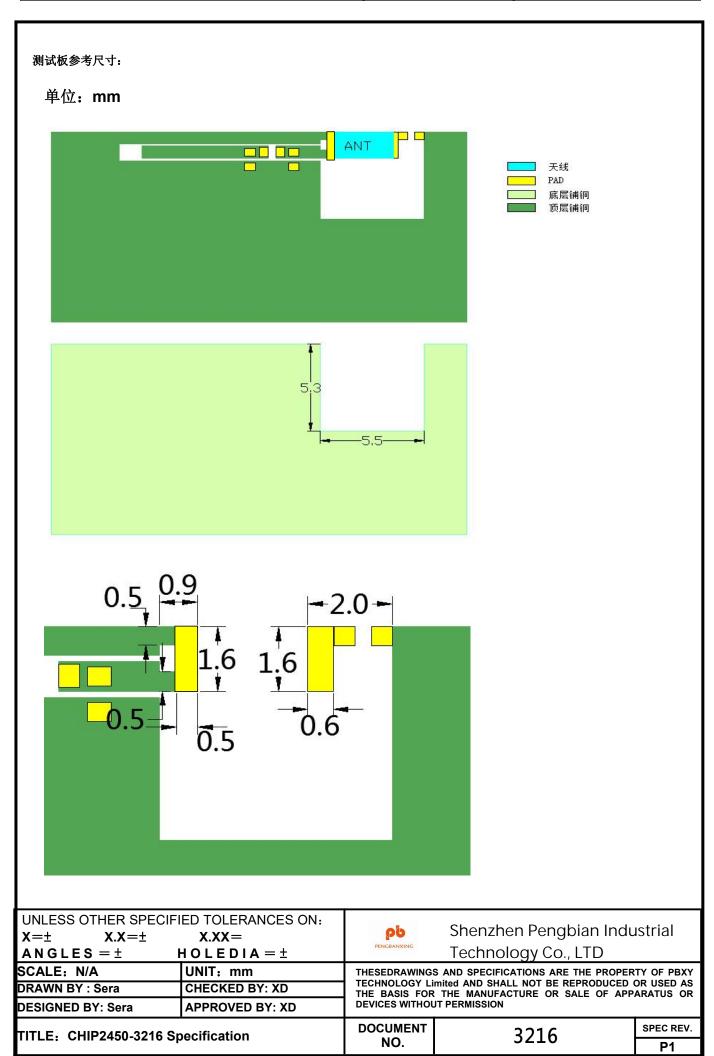


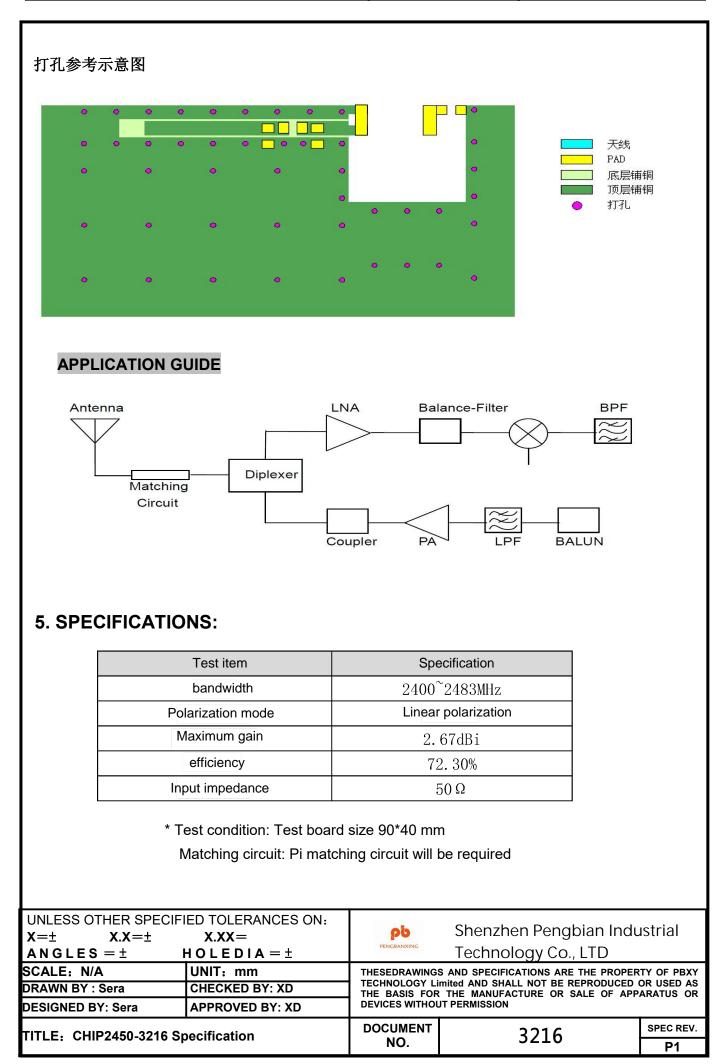
- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 3.2*1.6

4. SHAPE AND DIMENSIONS:



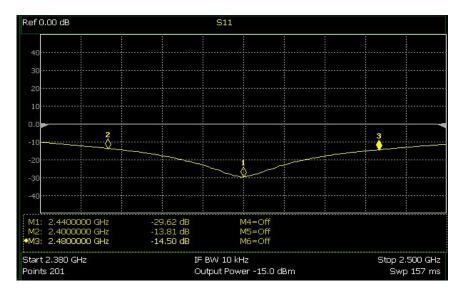
UNLESS OTHER SPECIF $X=\pm$ $X.X=\pm$ $A N G L E S = \pm$	X.XX=	PENGBANXING	Shenzhen Pengbian Indu Technology Co., LTD	ıstrial
SCALE: N/A	UNIT: mm	THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBXY		
DRAWN BY : Sera	CHECKED BY: XD	TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-3216 Specification		DOCUMENT NO.	3216	SPEC REV.
			5210	P1



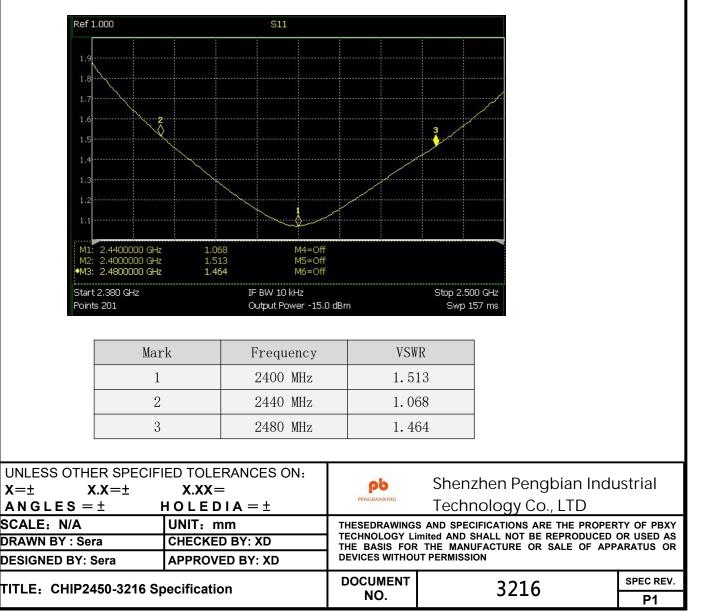


6. Electrical Characteristics :

回波损耗

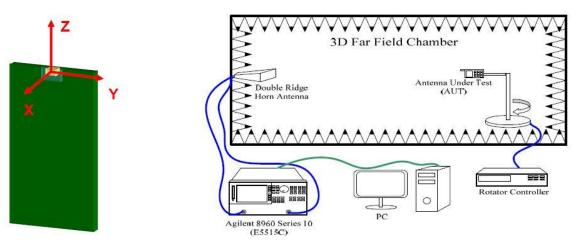


驻波比

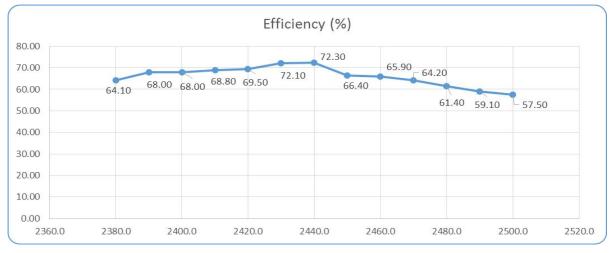


Radiation Pattern

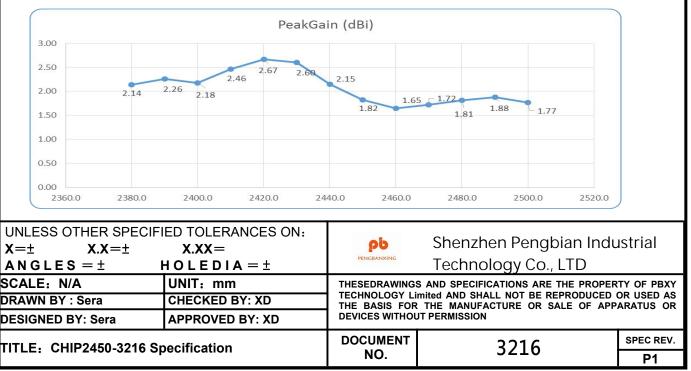
The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.

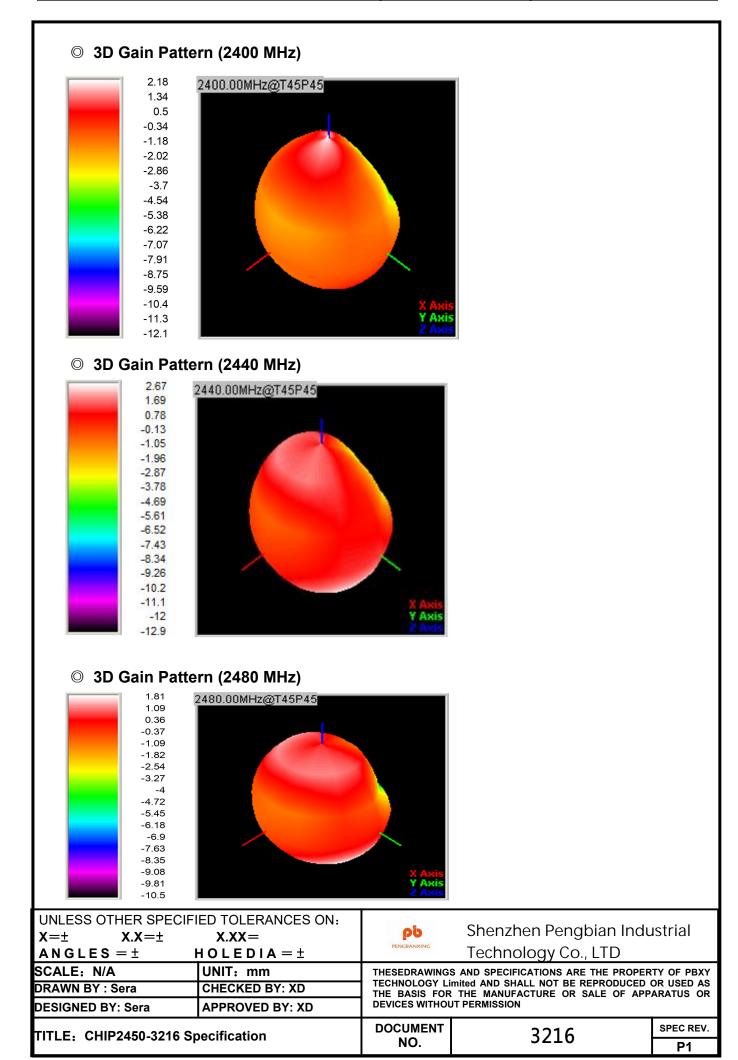


◎ 效率



最大增益





7. Environmental Characteristics

(1) Reliability Test

Item	Condition	Specification
Thermal shock	1. 30 ± 3 minutes at $-40^{\circ} C \pm 5^{\circ} C$, 2. Convert to $+105^{\circ} C$ (5 minutes) 3. 30 ± 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 ± 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 $^\circ \! \mathbb{C}$ to +105 $^\circ \! \mathbb{C}$.

UNLESS OTHER SPECIF X=± X.X=± ANGLES = ±	ED TOLERANCES ON: X.XX= H O L E D I A = ±	PENGBANXING	Shenzhen Pengbian Indu Technology Co., LTD	ıstrial
SCALE: N/A	UNIT: mm	THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBX		
DRAWN BY : Sera	CHECKED BY: XD	TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED A THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS O DEVICES WITHOUT PERMISSION		
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-3216 Specification		DOCUMENT NO.	3216	SPEC REV.
			5210	P1

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 2nd 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.

UNLESS OTHER SPEC X=± X.X=± ANGLES = ±	IFIED TOLERANCES ON: X.XX= HOLEDIA = ±	PENGBANXING	Shenzhen Pengbian Indu Technology Co., LTD	ıstrial
SCALE: N/A	UNIT: mm	THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBXY		
DRAWN BY : Sera	CHECKED BY: XD	TECHNOLOGY LIMITED AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-3216 Specification		DOCUMENT NO.	3216	SPEC REV.
			5210	P1



(1) Quantity/Reel: 5000pcs/Reel

