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	产品规	格承	认书		
	SPECIF	ICATI	ONS		
客户: CUSTOMER: _ 产品名称:					
DESCRIPTION 客户型号: CUSTOMER PA 产品型号:	: RT No:	Chip anten			
OUR MODEL No 日期: DATE:	0: PB	<u>X3216H0</u>	CO1		
	后请返回承认书一份 RN TO US ONE COPY		IFICATION FOR A	APPROVA	_ "
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PBX3216HC01 Specification

Operating Temp. : -40℃~+85℃

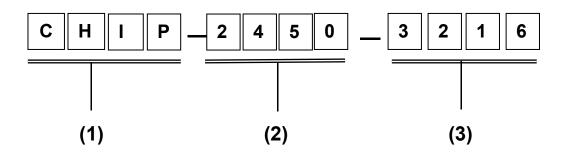
1. FEATURES:

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

2. APPLICATIONS:

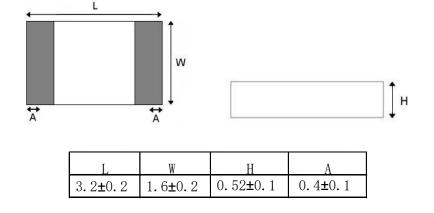
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION

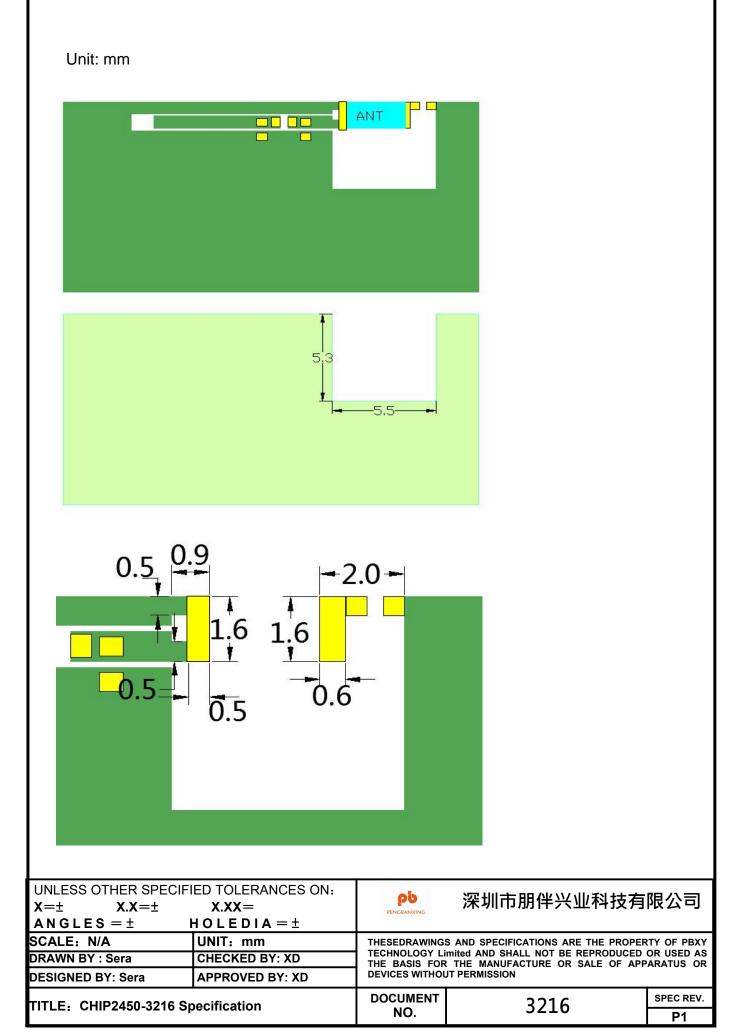


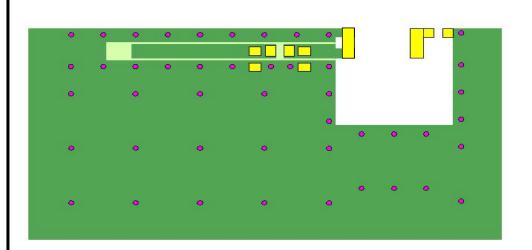
- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 3.2*1.6

4. SHAPE AND DIMENSIONS:

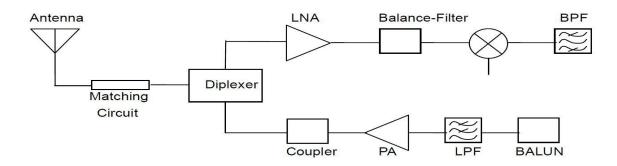


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APPLICATION GUIDE

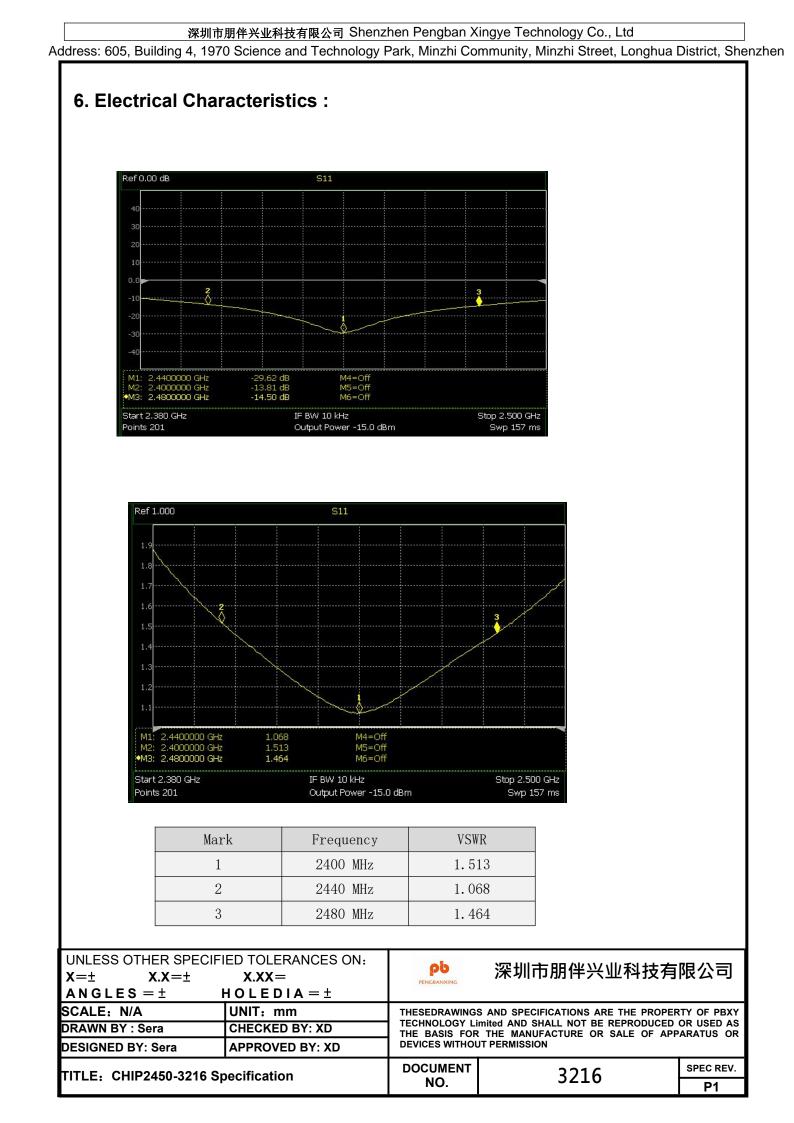


5. SPECIFICATIONS:

Test item 测试项	Specification 规格	
Bandwidth带宽	2400~2483MHz	
Polarization mode	Linear polarization	
Max gain *最大增益	2.67dBi	
Efficiency *效率	72.30%	
Input impedance	50 Ω	

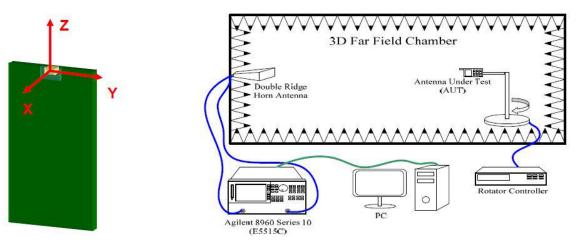
* Test condition: Test board size 90*40 mm
 Matching circuit: Pi matching circuit will be required

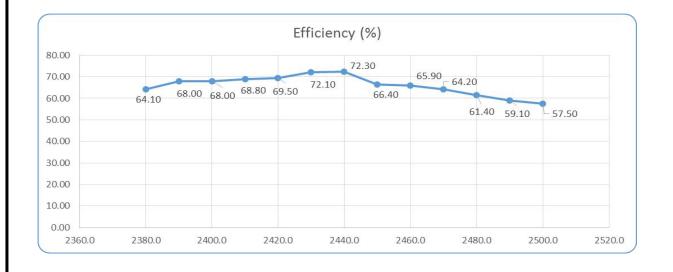
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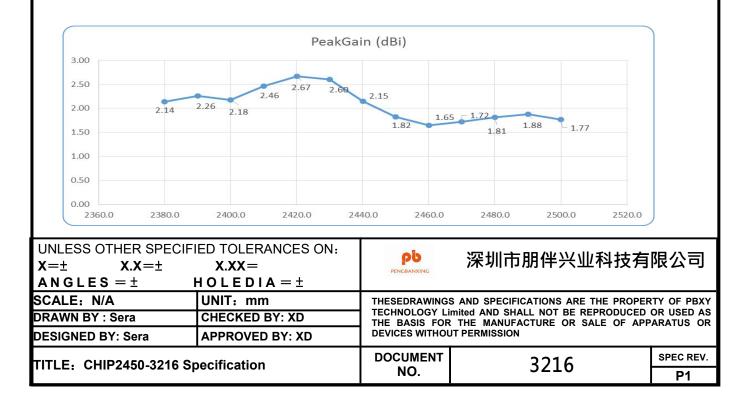


Radiation Pattern

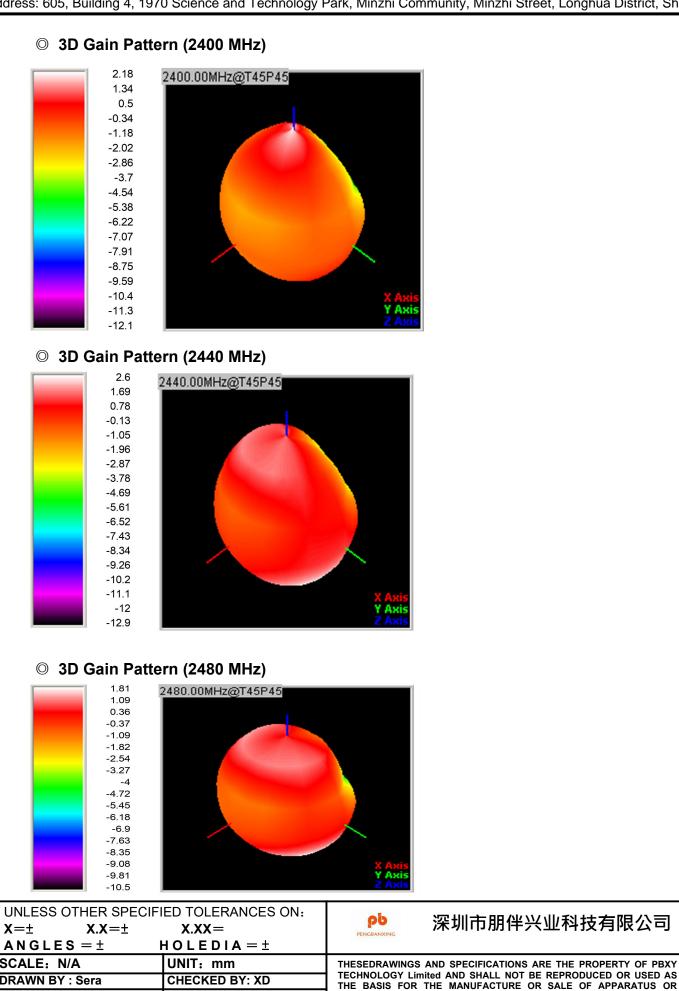
The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator,a standard horn antenna and Vector Network Analyzer is used to collect data.







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7. Environmental Characteristics

(1) Reliability Test

Item	Condition	Specification
Thermal shock	1. 30 ± 3 minutes at -40° C $\pm 5^{\circ}$ C, 2. Convert to $\pm 105^{\circ}$ C (5 minutes) 3. 30 ± 3 minutes at $\pm 105^{\circ}$ C $\pm 5^{\circ}$ C, 4. Convert to -40° 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	 Solder bath temperature : 260±5℃ 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:

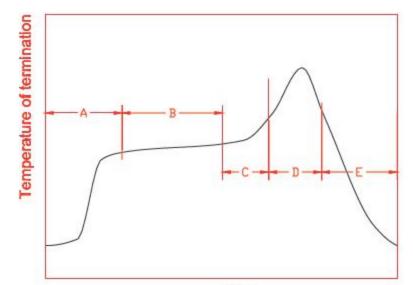
The temperature should be within -40~85°C and humidity should be less than 85% RH.

(3) Operating Temperature Range

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

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8. Recommended Reflow Soldering



		Time	
A	1 st rising temperature	The normal to Preheating temperature	30s to 60s
В	Preheating	140℃ to 160℃	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
		if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular cooling	200℃ to 100℃	$1^{\circ}C/s \sim 4^{\circ}C/s$
-	0.00A 3A		

*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.

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