产品规格承认书

SPECIFICATIONS

客户:

	CUSTOMER: _						
	产品名称:						
	DESCRIPTION	I:		Ceramic a	<u>ntenna</u>		
	客户型号:						
	CUSTOMER PA	ART No:					
	产品型号:						
	OUR MODEL N	10:	P	BX3216MA	01		
	日期:						
	DATE:			2019/10/28			
()	确认签字,盖章后请返回承认书一份 PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES						
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PBX3216MA01 Specification

Operating Temp. : -40 ℃~+85 ℃

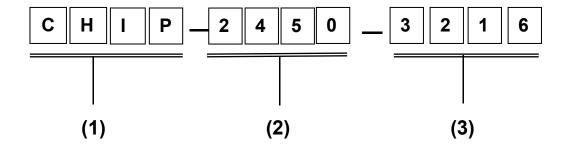
1. FEATURES:

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

2. APPLICATIONS:

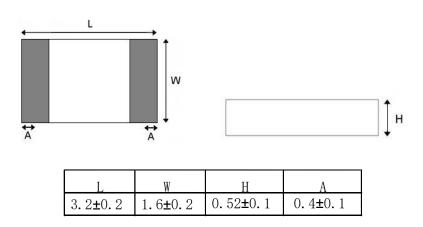
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

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:

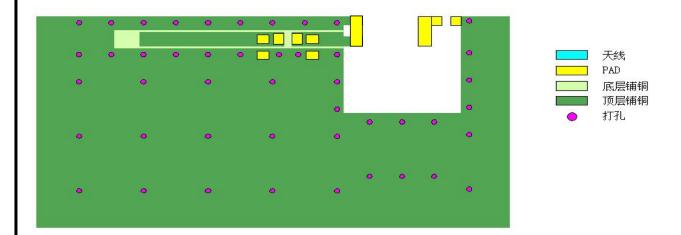


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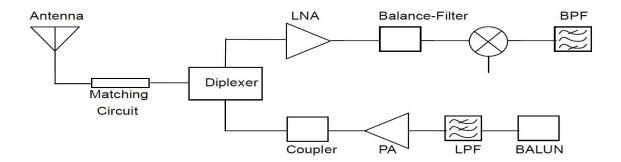
测试板参考尺寸: 单位: mm ANT 天线 PAD 底层铺铜 1.6 1.6

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打孔参考示意图



APPLICATION GUIDE



5. SPECIFICATIONS:

test item	specification
bandwidth	2400~2483MHz
polarization mode	linear polarization
maximum gain	2.67dBi
workpiece ratio	72. 30%
input impedance	50Ω

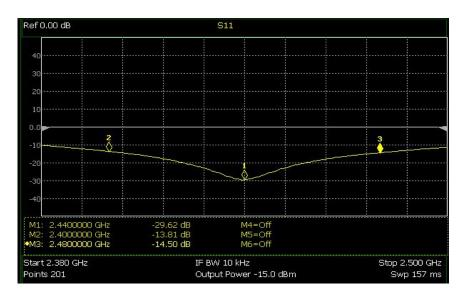
* Test condition: Test board size 90*40 mm

Matching circuit: Pi matching circuit will be required

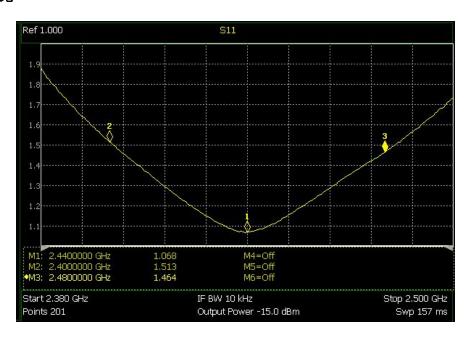
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6. Electrical Characteristics:

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驻波比

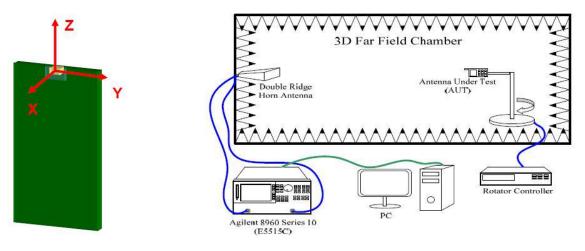


Mark	Frequency	VSWR
1	2400 MHz	1.513
2	2440 MHz	1.068
3	2480 MHz	1. 464

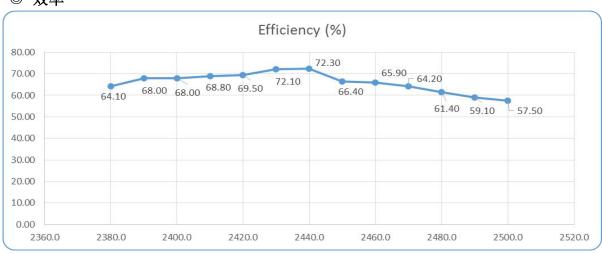
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Radiation Pattern

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.

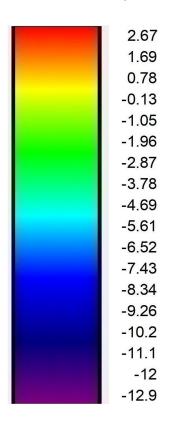


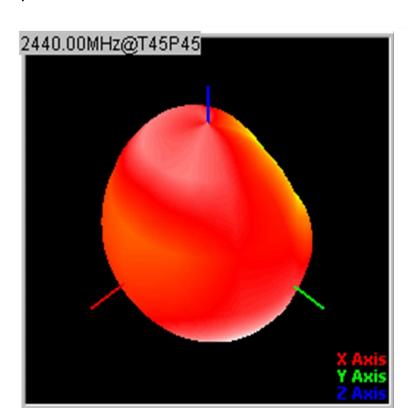
◎ 效率



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◎ 3D Gain Pattern (2440 MHz)





Frequency(MHz)	Max Gain(dBi)
2440	2.67

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7. Environmental Characteristics

(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: $85\pm5^{\circ}$ 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 : $260\pm5^{\circ}\!$	No apparent damage
Solderability	The dipped surface of the terminal shall be at least 95% covered with solder after dipped in solder bath of $245\pm5^\circ\!$	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:

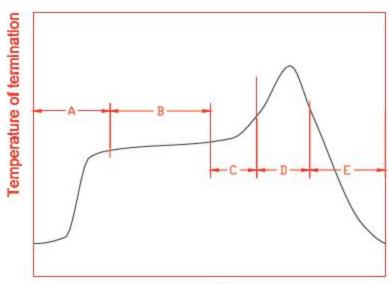
The temperature should be within -40~85°C and humidity should be less than 85% RH.

(3) Operating Temperature Range

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

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8. Recommended Reflow Soldering



Time

		IIIIG	
Α	1 st rising temperature	The normal to Preheating temperature	30s to 60s
В	Preheating	Preheating 140°C to 160°C	
С	2 nd rising temperature	Preheating to 200°C	20s to 40s
D		if 220°C	50s~60s
	Main heating	if 230°C	40s∼50s
		if 240°C	30s~40s
		if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular cooling	200°C to 100°C	1°C/s ~ 4°C/s
	2000		

^{*}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

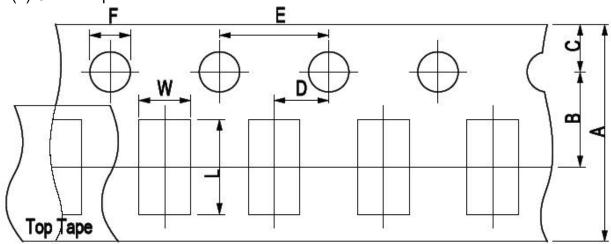
Note that excess of soldering volume will easily get crack the body of this product.

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

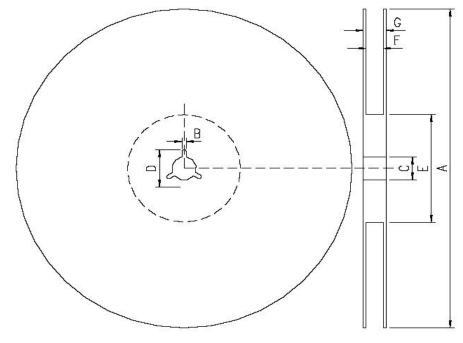
(1) Quantity/Reel: 5000pcs/Reel

(2) Carrier tape dimensions



Type	A	В	С	D	Е	F	L	W
2450-21	8.00 ± 0.3	3.50 ± 0.05	1.75 \pm 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
C	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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