

# SPECIFICATIONS

CUSTOMER: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_ Bipolar antenna \_\_\_\_\_

CUSTOMER PART NO: \_\_\_\_\_


OUR MODEL NO: \_\_\_\_\_ **PBX1608MC01** \_\_\_\_\_

DATE: \_\_\_\_\_

PLEASE RETURN TO US ONE COPY OF “SPECIFICATION FOR APPROVAL”  
WITH YOUR APPROVED SIGNATURES

Approved	LiuFei	Audit	LiuFei	Making	LiuXiaoMei
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Customer Acknowledges Signature	
Date	

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DESIGNED BY: Sera	APPROVED BY: XD		
TITLE: CHIP2450-1608 Specification		DOCUMENT NO.	SPEC REV.
		1608	P1

## PBX1608MC01 Specification

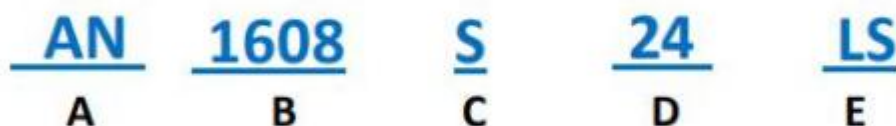
### 1. Features:

- Stable and reliable in performances
- Low profile , compact size
- RoHS compliance
- SMT processes compatible

### 2. APPLICATIONS:

- ISM 2 . 4 GHz applications
- ZigBee/BLE applications
- Bluetooth earphone systems
- Hand-held devices when WiFi/Bluetooth functions are needed , e.g. , Smart phones
- IEEE802.11 b/g/n
- Wireless PCMCIA cards or USB dongles

### 3. Part Number Information



<b>A</b>	Patch ceramic day	<b>Antenna</b>
<b>B</b>	size	<b>1.5X0.8mm</b>
<b>C</b>	Antenna type	s: bipolar D: unipolar
<b>D</b>	frequency	<b>2.4 ~ 2.5GHz</b>
<b>E</b>	product type	<b>LS</b>

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#### 4. Product dimensions:

##### 1608 Bipolar antenna

Figure	Symbol	Dimension (mm)
	L (长)	$1.5 \pm 0.10$
	W (宽)	$0.8 \pm 0.10$
	T (厚度)	$0.50 \pm 0.10$
	A (电极宽度)	$0.2 \pm 0.10$

#### 5. Electrical Specification:

Specification		
Part Number	AN1608S24LS	
Central Frequency	2450	MHz
Bandwidth	120 (Min.)	MHz
Return Loss	-6.5 (Max)	dB
Peak Gain	2.7	dBi
Impedance	50	Ohm
Operating Temperature	-40 ~ +85	C
Maximum Power	4	W
Resistance to Soldering Heats	10 ( @ 260C)	sec.
Polarization	Linear	
Azimuth Beamwidth	Omni-directional	
Termination	Ni / Sn (Leadless)	

Remark : Bandwidth & Peak Gain was measured under evaluation board of next page

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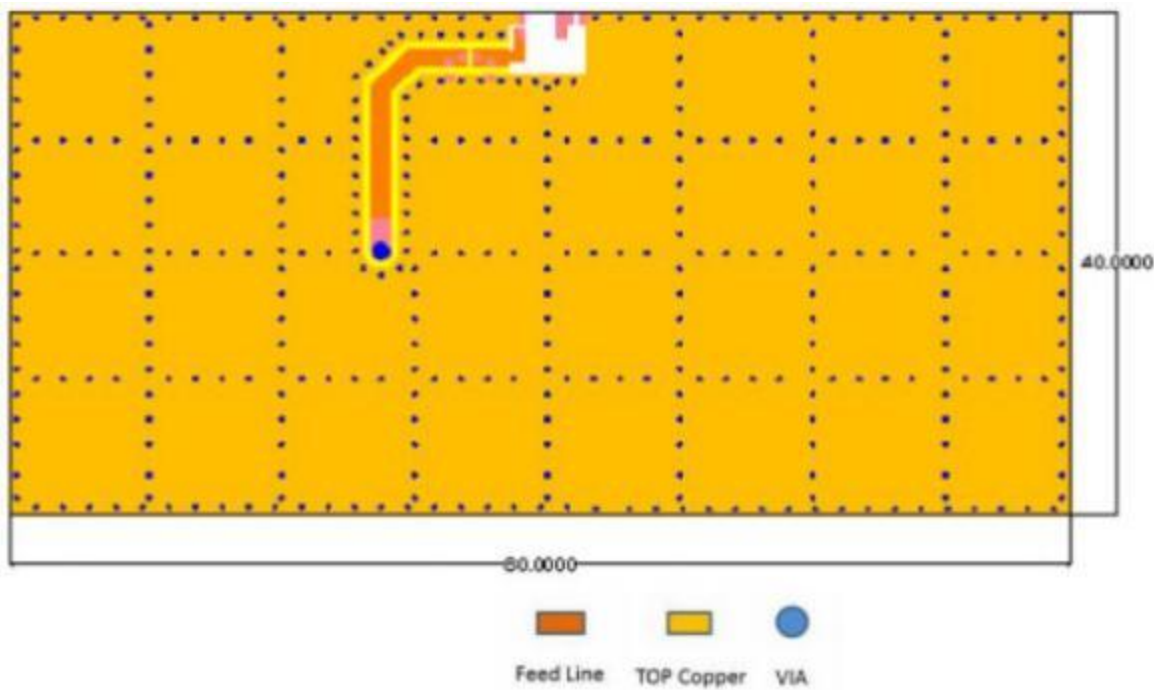
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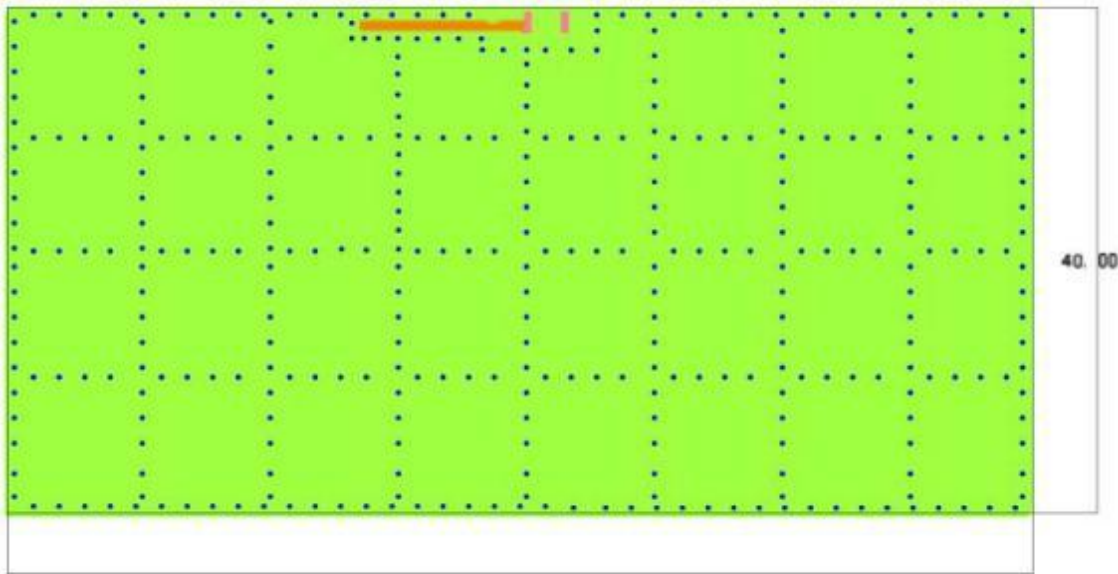
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6. 1608 Bipolar antenna PCB



2<sup>nd</sup> Evaluation Board Dimension

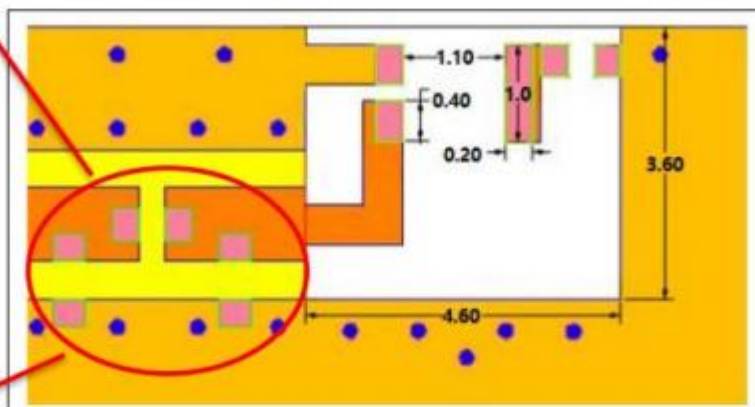


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净空区域 (Size=4.6\*3.6mm)

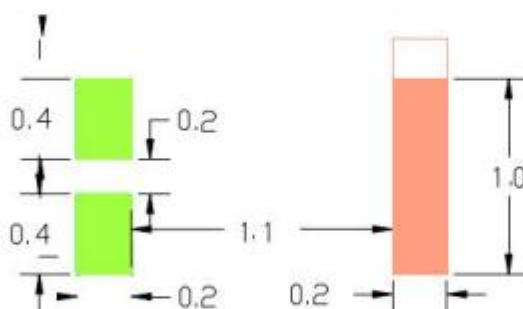


50 ohm transmission Line

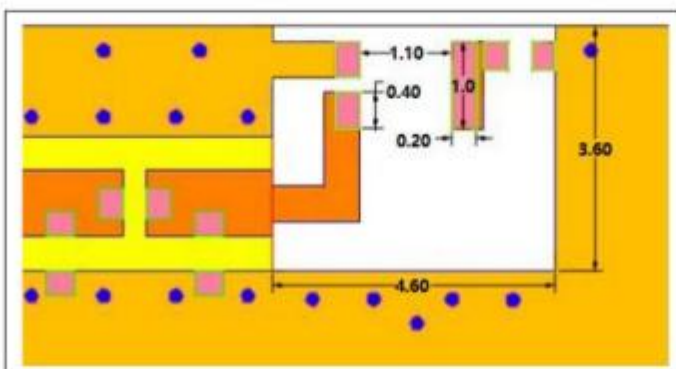


Matching Circuit

FootPrint (Unit : mm)



2 Layout Dimensions in Clearance area (Size=8.0\*3.0mm)



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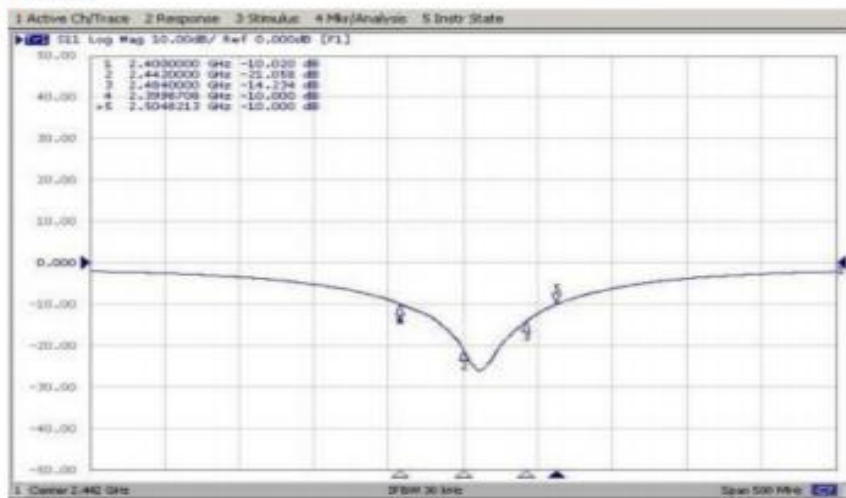
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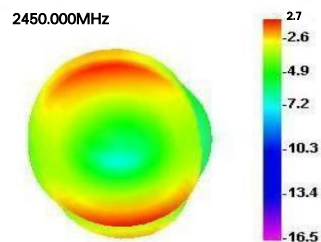


## 7. Measurement Results

### Return Loss



### 3D Gain Pattern



(2450MHz)

2450.000MHz

2450.000MHz

2450.000MHz

Freque ncy	Effic	Percen	Gain
2400	-1.64	72.27%	2.38
2450	-1.33	75.34%	2.7
2500	-1.59	72.98%	2.59

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