

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		
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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

AN 1608 S 24 LS
A B C D E

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

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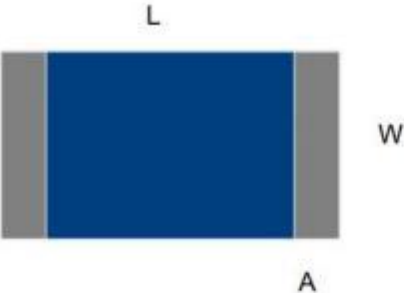
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4. Product dimensions:

1608 Bipolar antenna

Figure	Symbol	Dimension (mm)
	L (长)	1.5 ± 0.10
	W (宽)	0.8 ± 0.10
	T (厚度)	0.50 ± 0.10
	A (电极宽度)	0.2 ± 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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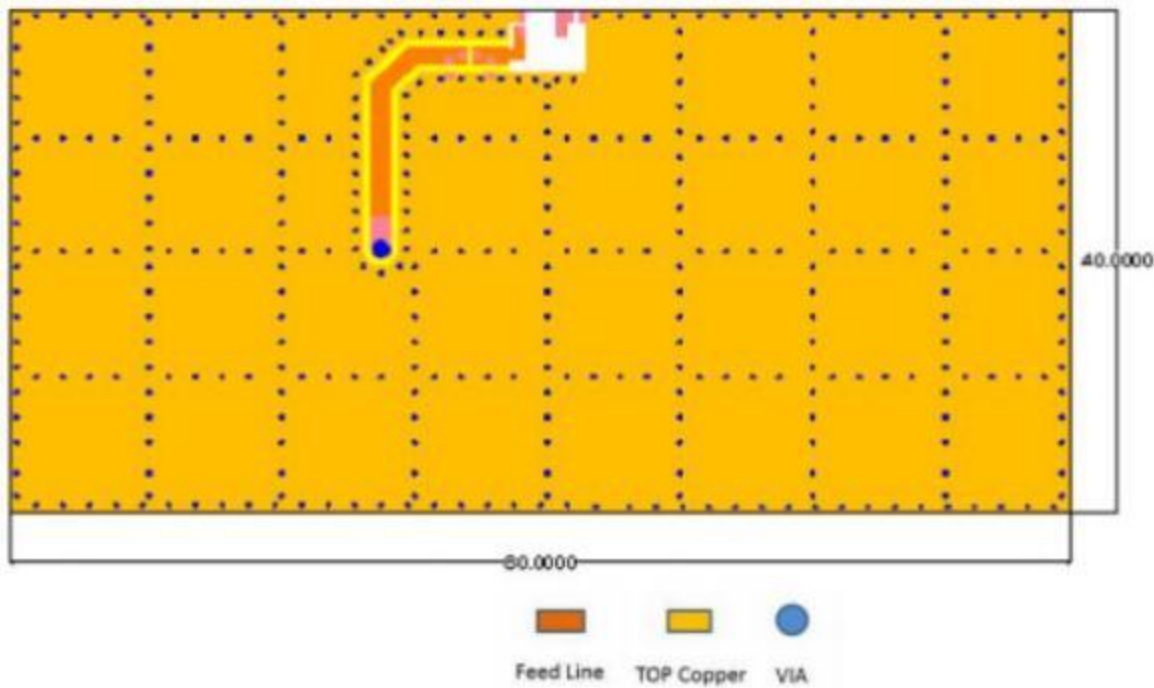
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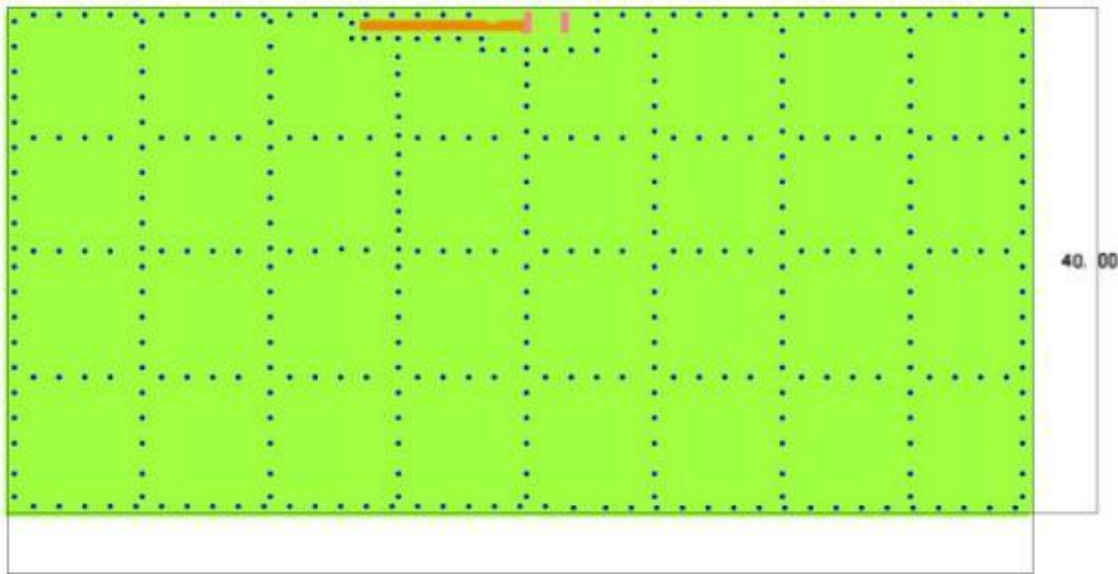
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6. 1608 Bipolar antenna PCB



2nd Evaluation Board Dimension

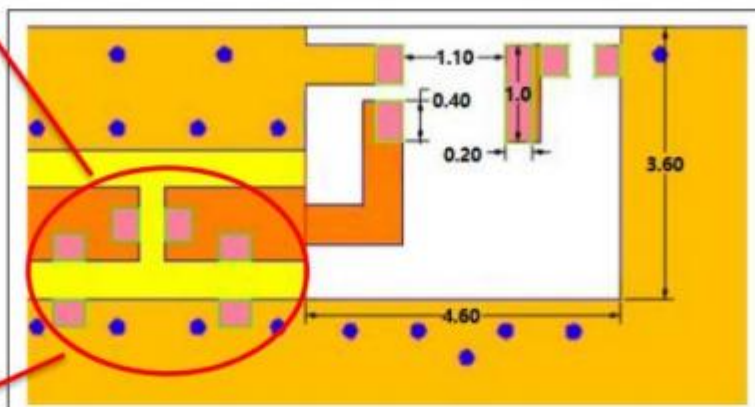


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净空区域 (Size=4.6*3.6mm)

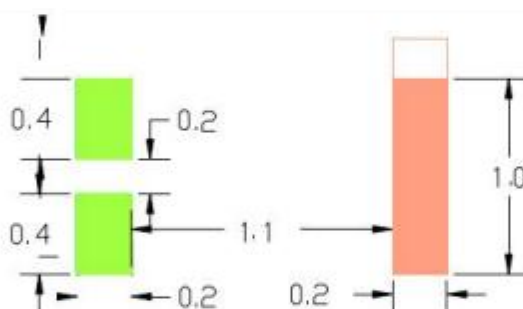


50 ohm transmission Line

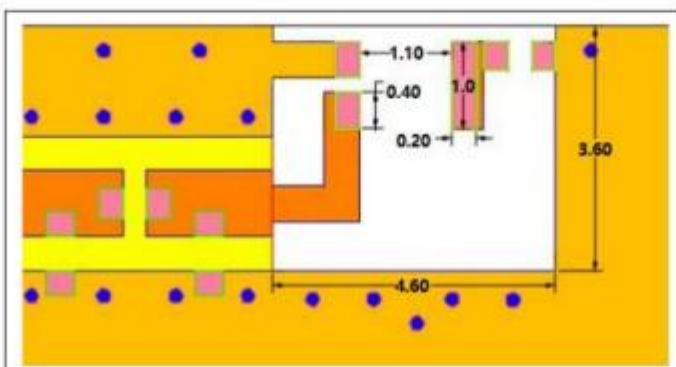


Matching Circuit

FootPrint (Unit : mm)



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



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ANGLES = ±

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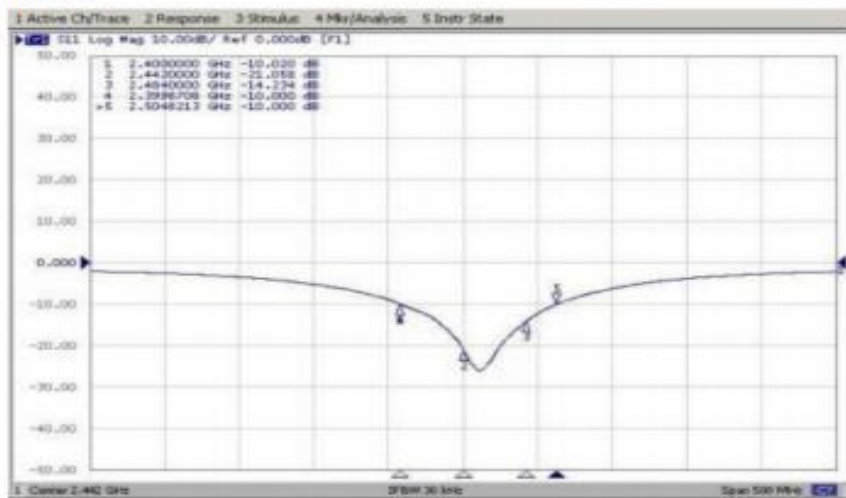
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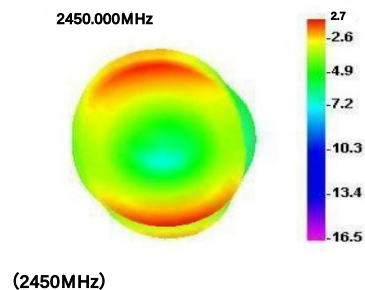
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7. Measurement Results

Return Loss



3D Gain Pattern



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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