

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

Address: Room 308, Building B, Renxing Machinery Factory, No.973 Minzhi Avenue, Xinniu Community, Minzhi Sub-district, Longhua District, Shenzhen City, Guangdong Province, China

PBX1608MC01 Specification

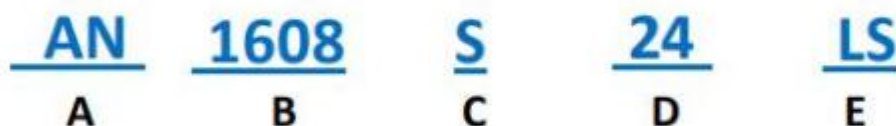
1. Features:

- 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



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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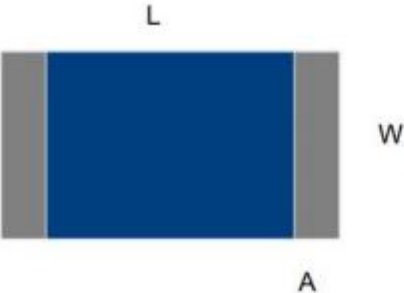
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4. Product dimensions:

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

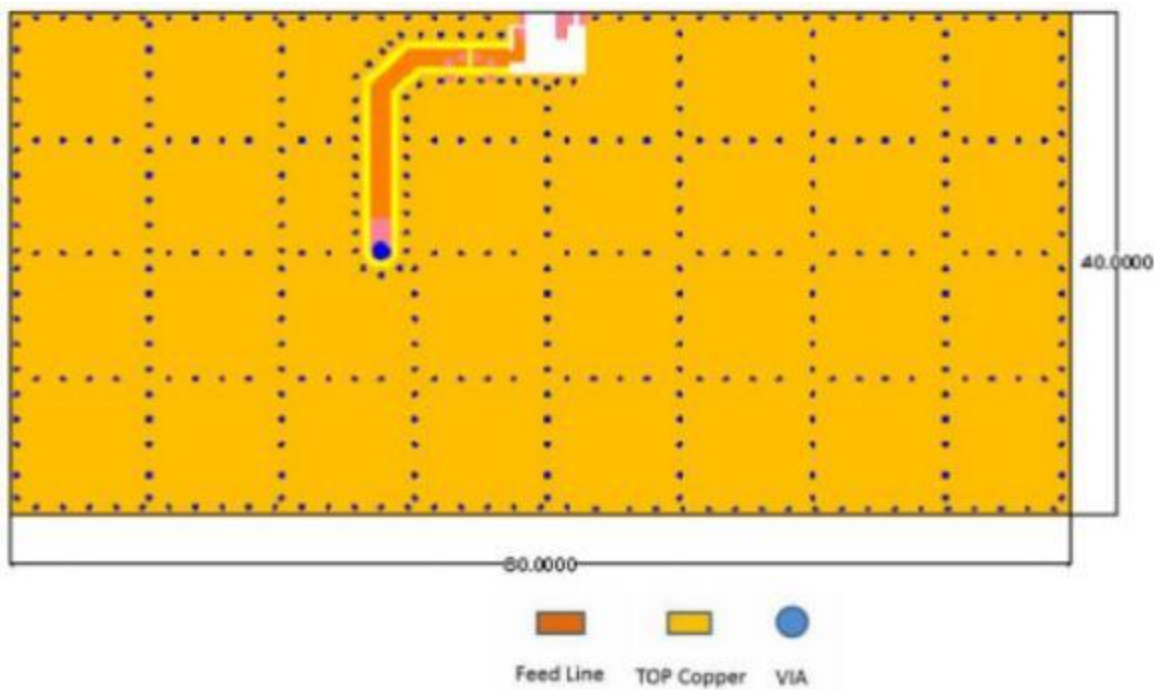
5. Electrical Specification:

Specification		
Part Number	AN1608S24LS	
Central Frequency	2450	MHz
Bandwidth	120 (Min.)	MHz
Return Loss	-6.5 (Max)	dB
Peak Gain	1.66	dBi
Impedance	50	Ohm
Operating Temperature	$-40^{\circ} \sim +85^{\circ}$	C
Maximum Power	4	W
Resistance to Soldering Heats	10 (@ 260C)	sec.
Polarization	Linear	
Azimuth Beamwidth	Omni-directional	
Termination	Ni / Sn (Leadless)	

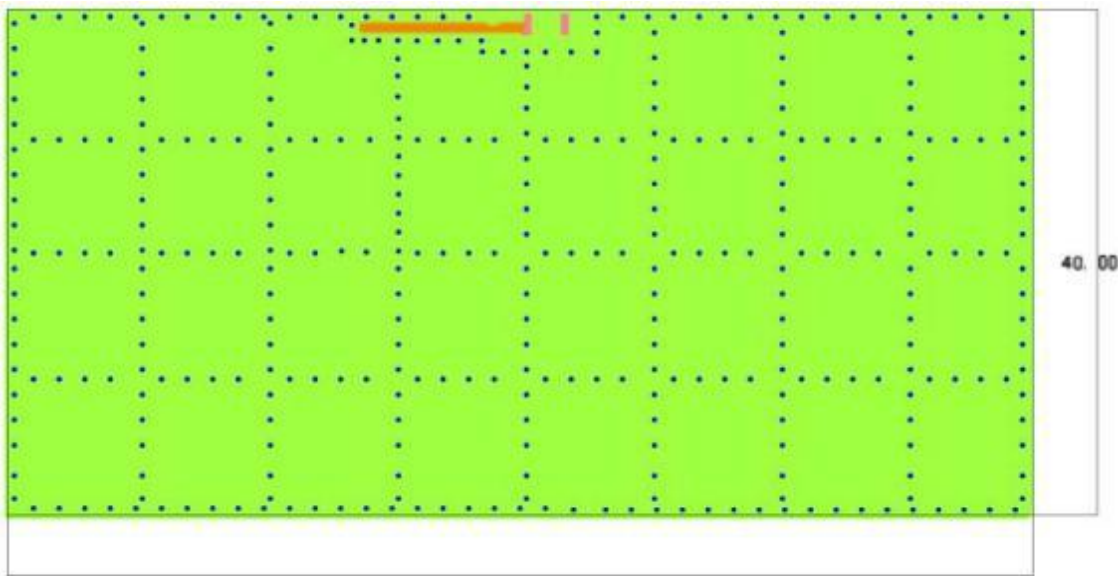
Remark : Bandwidth & Peak Gain was measured under evaluation board of next page

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6. 1608 Bipolar antenna PCB



2nd Evaluation Board Dimension

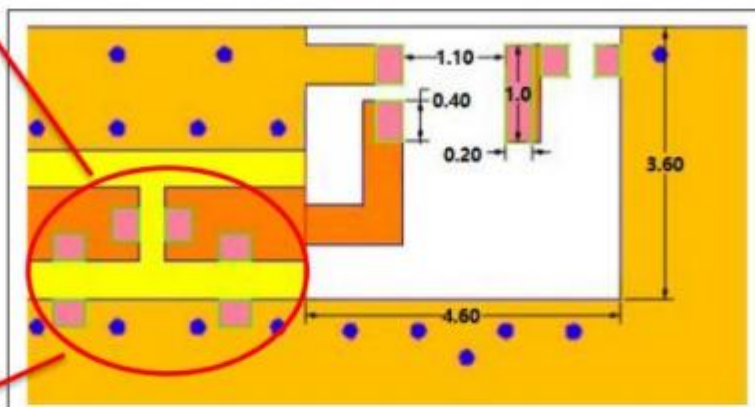


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净空区域 (Size=4.6*3.6mm)

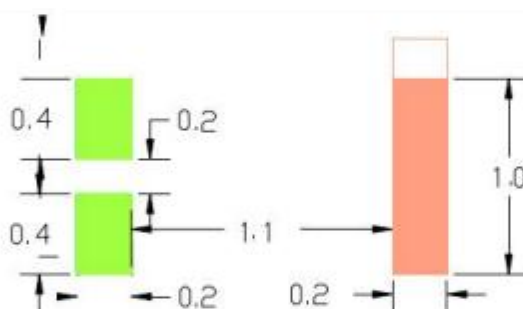


50 ohm transmission Line

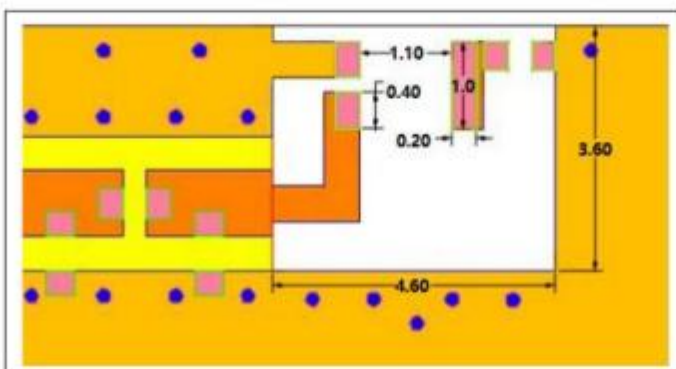


Matching Circuit

FootPrint (Unit : mm)



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



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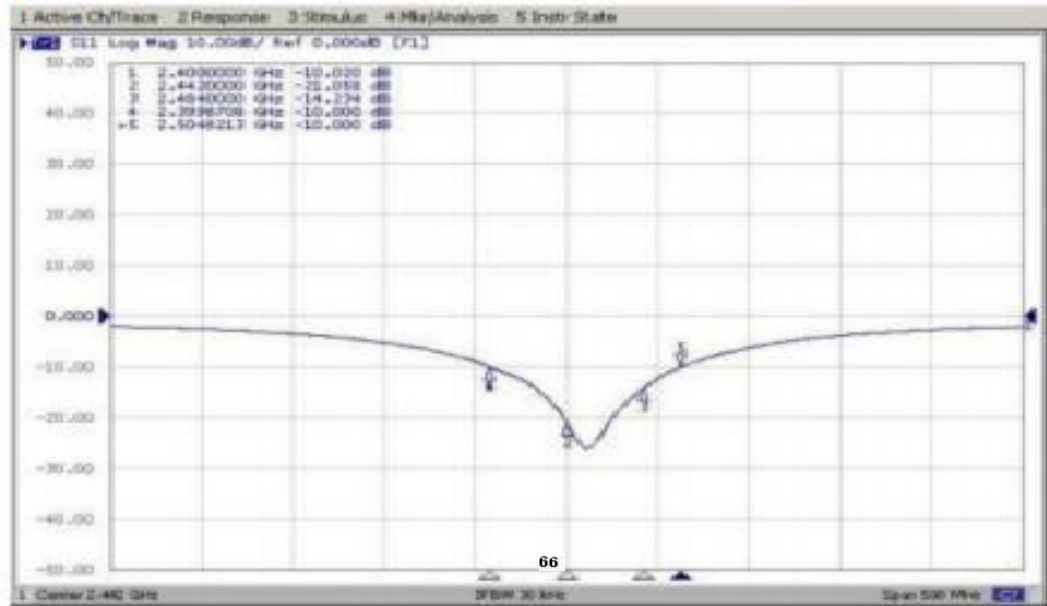
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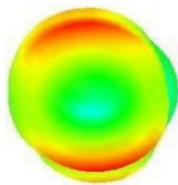
7. Measurement Results

Return Loss

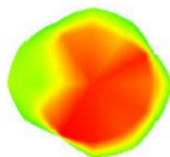


Radiation

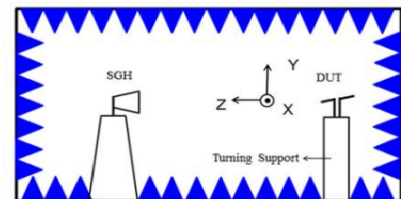
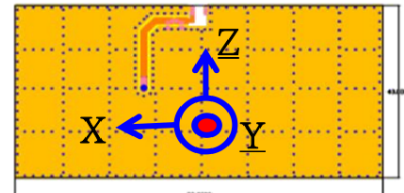
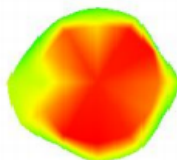
2400.000MHz



2450.000MHz



2500.000MHz



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