产品规格承认书

SPECIFICATIONS

	客户:							
	CUSTOMER:							
	产品名称: DESCRIPTIO 客户型号: CUSTOMER I	ON: PART NO:		gnetic <i>i</i>				
	产品型号:	NO	-	V460011				
	OUR MODEL 日期: DATE:	NO:		<u> </u>				
	PLEASE RE	盖章后请返 FURN TO US APPROVED	ONE COP	Y OF "SPE	CI	FICATION	FOR APPROVA	L "
	Approved	LiuFei	Audit	LiuFei		Making	LiuXiaoMei	
	Customer	Acknowled	dges Sig	nature				
		Date						
X=± ANGL	S OTHER SPEC X.X=± ES = ±	X.XX= HOLEDIA		PENGBANXING			nenZhen Technolo	
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TITLE:	CHIP2450-1608	Specification		DOCUMEN.	г	1	608	SPEC REV.

NO.

PBX1608MA01 Specification

Operating Temp. : -40 ℃~+85 ℃

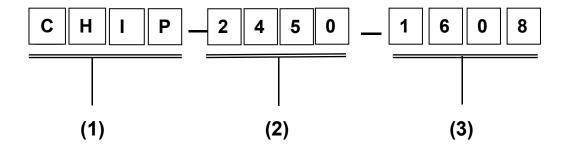
1. FEATURES:

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

2. APPLICATIONS:

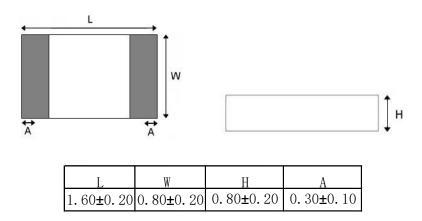
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION



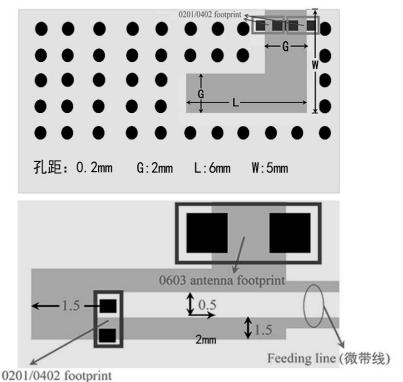
- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 1.6*0.8

4. SHAPE AND DIMENSIONS:



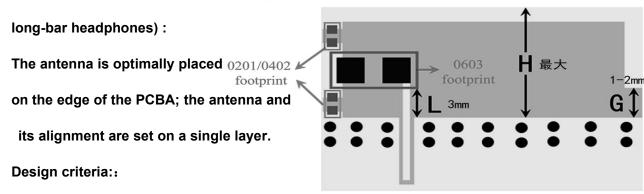
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TITLE: Chip2450-1606 Specification		NO.	1000	P1

•Antenna is located in the PCB board or the middle position (long-bar headphones): (units: mm)



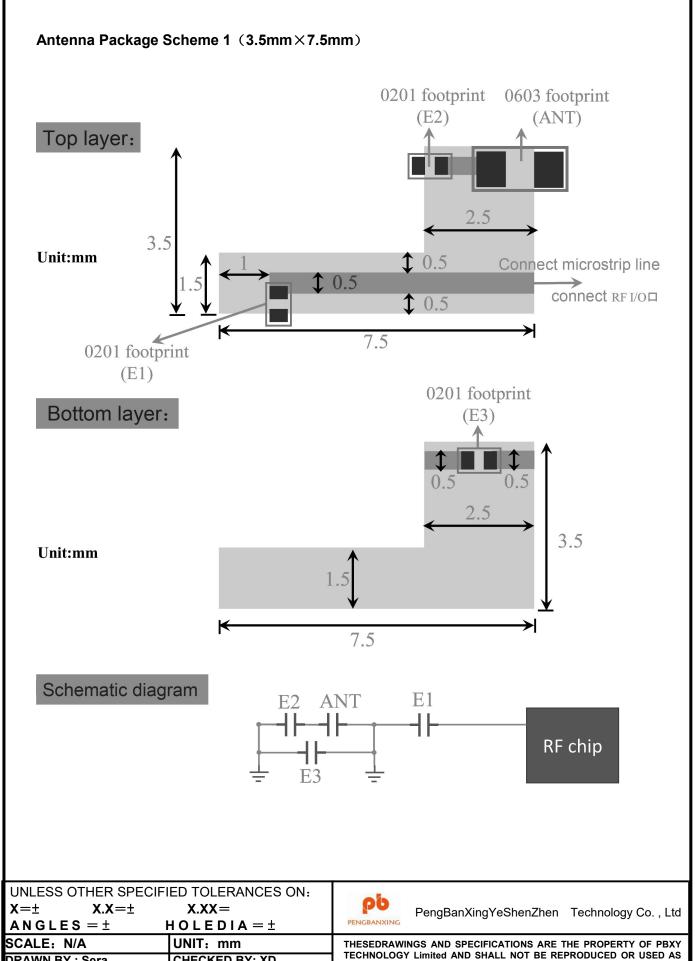
The antenna is optimally placed in the middle area, and at least one row of through holes around the clearance area is optimally required.

• When the antenna is located at the edge of the PCB board (in-ear headphones and some

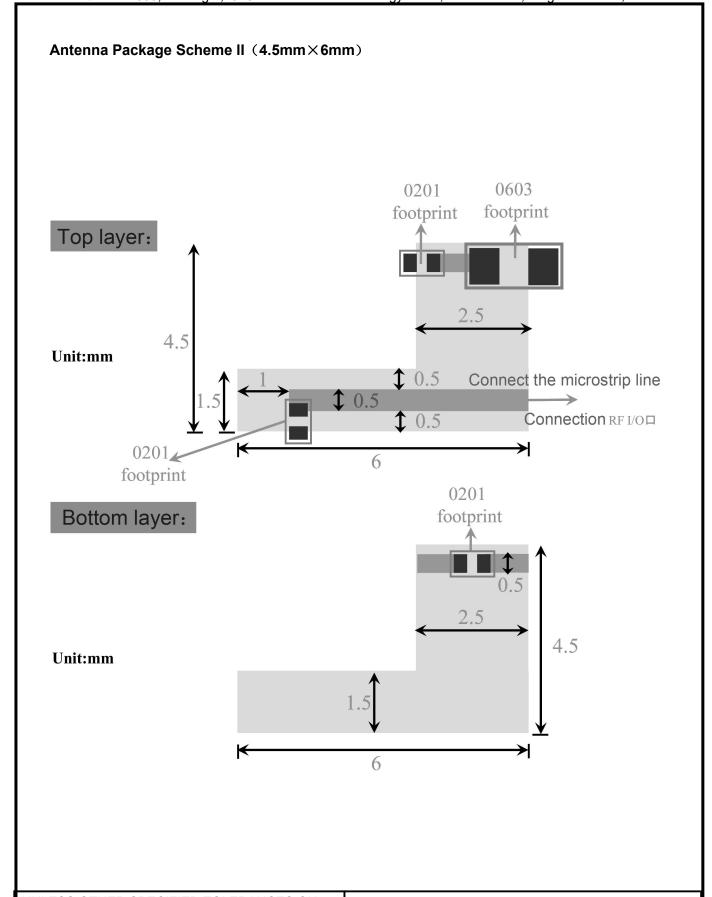


- The dimensions in the diagram are for reference only; the actual dimensions are optimized for different versions.
- 2. The optimum clearance area around the need for at least a row of holes, aperture 0.3 mm, and other PCBA circuit or material isolation.

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Antenna Package Scheme III (1.5mm×10mm) 0603 0201 footprint footprint Top layer: Unit:mm Connect the microstrip line Connection RF I/O D 0201 footprint 0201 footprint Bottom layer: Unit:mm UNLESS OTHER SPECIFIED TOLERANCES ON: Pb $X.X=\pm$ X.XX =PengBanXingYeShenZhen Technology Co., Ltd PENGBANXING $ANGLES = \pm$ $HOLEDIA = \pm$ SCALE: N/A UNIT: mm THESEDRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION **CHECKED BY: XD** DRAWN BY : Sera DESIGNED BY: Sera APPROVED BY: XD **DOCUMENT** SPEC REV.

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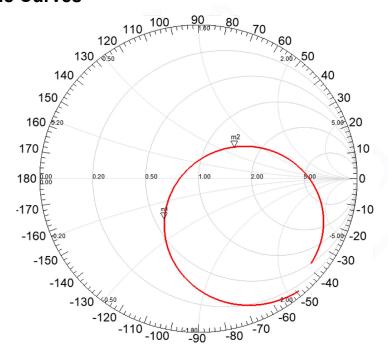
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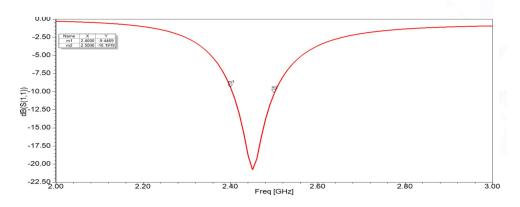
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Electrical Characteristics

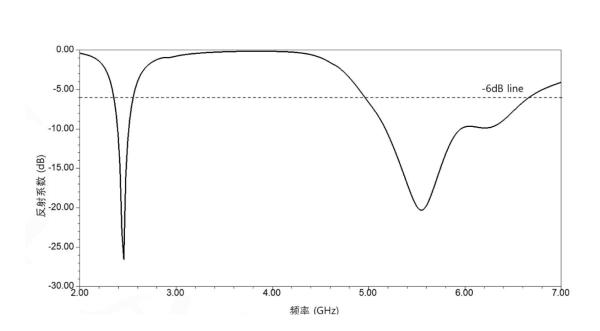
	Feature	Specification
1	Central frequency	2.45GHz
2	Bandwidth	>150MHz
3	Peak gain	3 dBi
4	VSWR	<2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

Characteristic Curves

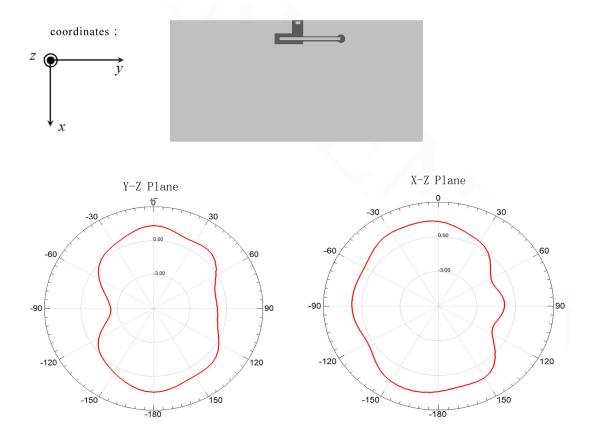




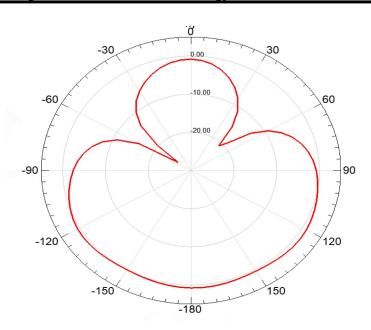
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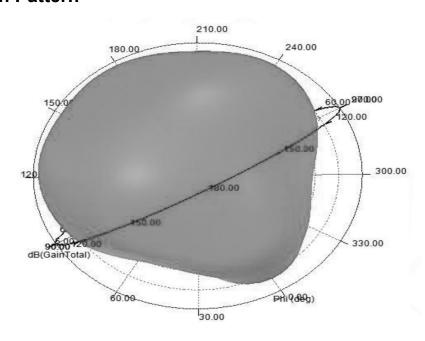
Radiation Pattern



UNLESS OTHER SPECIFIED TOLERANCES ON:				
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TITLE: Chip2450-1606 Specification		NO.	1000	P1



3D Radiation Pattern

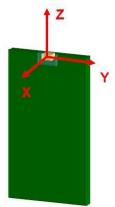


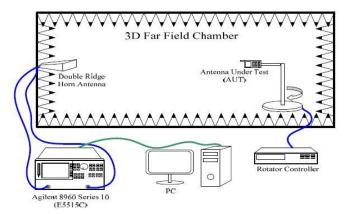
Frequency	2400MHz	2450MHz	2500MHz
Avg. gain	-1.92	-1.35	-1.56
Peak gain	1.79	3.00	2.66
Efficiency	74.55	80.25	76.98

UNLESS OTHER SPECIFIED TOLERANCES ON:				
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TITLE: CHIP2450-1608 Specification		NO.	1008	P1

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.





Environmental Characteristics

(1) Reliability Test

Item	Condition	Specification
Thermal shock		No apparent damage Fulfill the electrical spec. after test.
Humidity resistance	,	No apparent damage Fulfill the electrical spec. after test.
High temperature resistance	Temperature: b0" (l±b" (No apparent damage Fulfill the electrical spec. after test.
Low temperature resistance		No apparent damage Fulfill the electrical spec. after test.
Soldering heat resistance	1. Solder bath temperature : $260\pm5^{\circ}$ C 2. 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 $245\pm5^\circ\!$	No apparent damage

(2) Storage Condition

(a) At warehouse:

The temperature should be within $0 \sim 30^{\circ}\text{C}$ and humidity should be less than 60% RH. The product should be used within 1 year from the time of delivery.

(b) On board:

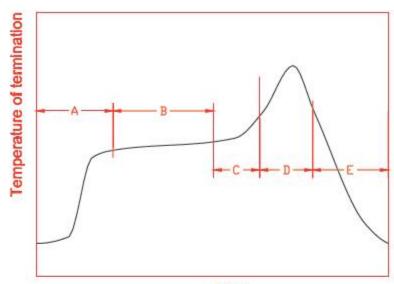
The temperature should be within -40~85°C and humidity should be less than 85% RH.

(3) Operating Temperature Range

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

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8. Recommended Reflow Soldering



Time

Α	1 st rising temperature	The normal to Preheating temperature	30s to 60s
В	Preheating	140°C to 160°C	60s to 120s
С	2 nd rising temperature	Preheating to 200°C	20s to 40s
	Main heating	if 220°C	50s~60s
D		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
	2626 03		

^{*}reference: J-STD-020C

(1) Soldering Gun Procedure

Note the follows, in case of using solder gun for replacement.

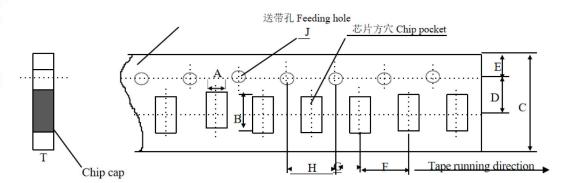
- (a) The tip temperature must be less than $350^{\circ}\,$ C for the period within 3 seconds by using soldering gun under 30 W.
- (b) The soldering gun tip shall not touch this product directly.

(2) Soldering Volume

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

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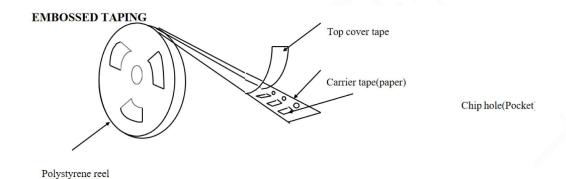
Dimensions of paper taping:



Unit: mm

代号 Code 纸带规格 papersize	A	В	С	D*	E	F	G*	Н	J	T
+	1.10	1.90	8.00	3.50	1.75	4.00	2.00	4.00	1.50	1.10
尺寸	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.10	-0/+0.10	Max

Reel (4000 pcs/Reel)



Storage Period

The guaranteed period for solderability is 6 months (Under deliver package condition). Temperature: $5\sim40^{\circ}$ C /Relative Humidity: $20\sim70\%$

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