

产品规格承认书

SPECIFICATIONS

Manufacturer: GuangDong Konfulon Electronics Co., Ltd
Address: No.20,Huahong Industrial Middle Road,Transfer IndustrialPark,Shijiao Town,
QingchengDistrict,Qingyuan City GuangDong China 511510

产品名称:
DESCRIPTION

电容式双极天线

客户型号:

CUSTOMER PART NO:

产品型号:

OUR MODEL NO:

DMX1608MA01/02

日期:

DATE:

2019/09/01

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

核准	刘树军	审核	赖工	制作	张工
----	-----	----	----	----	----

客户承认签印	
日期	

UNLESS OTHER SPECIFIED TOLERANCES ON:

X = ±

X.X = ±

X.XX =

ANGLES = +

HOLE DIA = +

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

1608

SPEC REV.

P1

DMX1608MA01 Specification

Operating Temp. : -40°C~+85°C

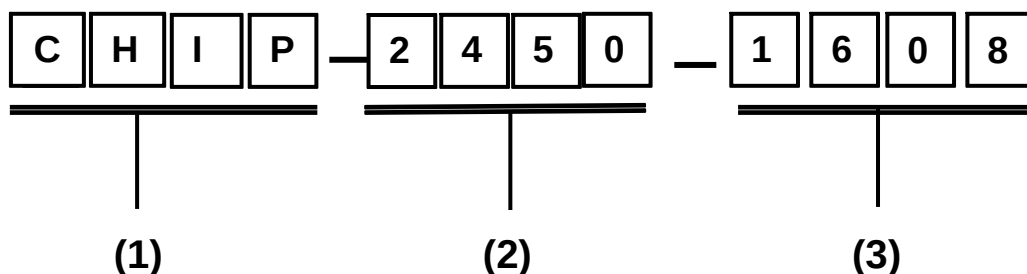
1. FEATURES:

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

2. APPLICATIONS:

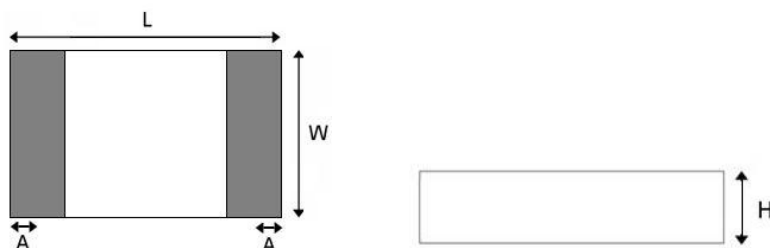
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

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:



		H	
1.6±0.2	0.8±0.2	0.8±0.2	0.3±0.1

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=

ANGLES = + HOLEDIA = +

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

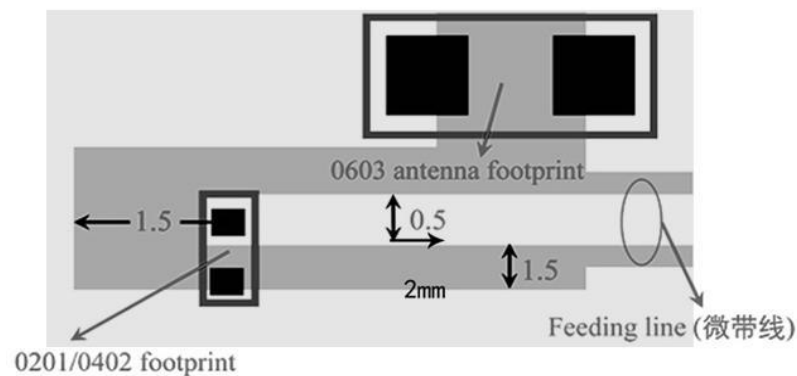
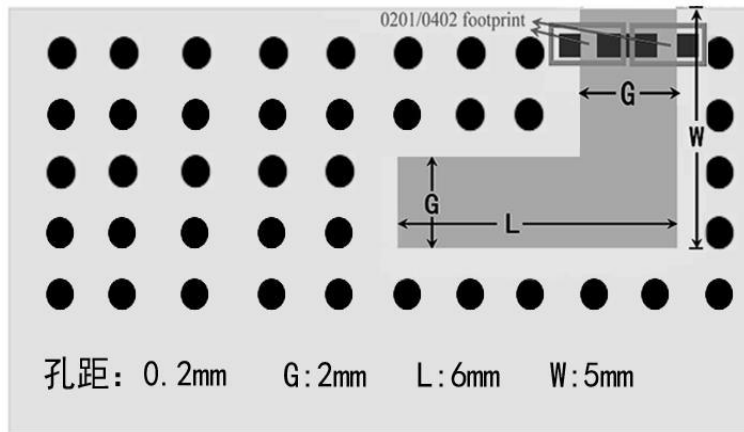
DOCUMENT NO.

1608

SPEC REV.

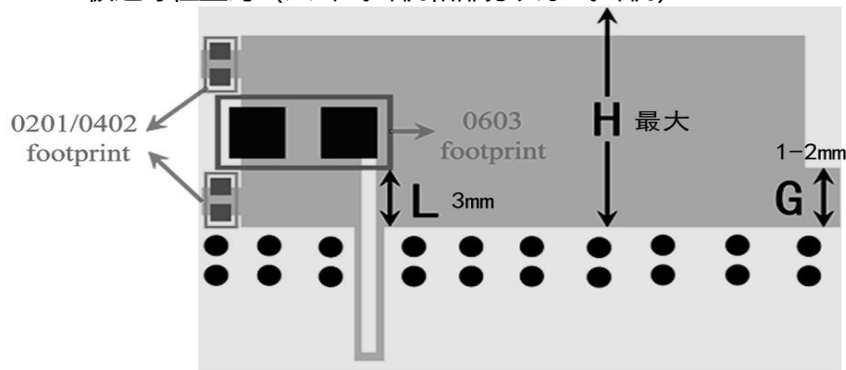
P1

- 天线位于 PCB 板内部或中间位置时（长条式耳机）：（单位：mm）



天线最优放置于中间区域，净空区周围最优需要至少一排过孔。

- 天线位于 PCB 板边缘位置时（入耳式耳机和部分长条式耳机）：



天线最优放置于 PCBA 的边缘；天线及其走线设置在单层。

设计标准：

1. 图中的尺寸仅作为参考；实际尺寸会根据不同版型进行优化。
2. 净空区周围最优需要至少一排过孔，孔径 0.3mm，与 PCBA 上的其它回路或物料进行隔离。

UNLESS OTHER SPECIFIED TOLERANCES ON:

X = ± X.X = ± X.XX =

ANGLES = + HOLES DIA = +

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

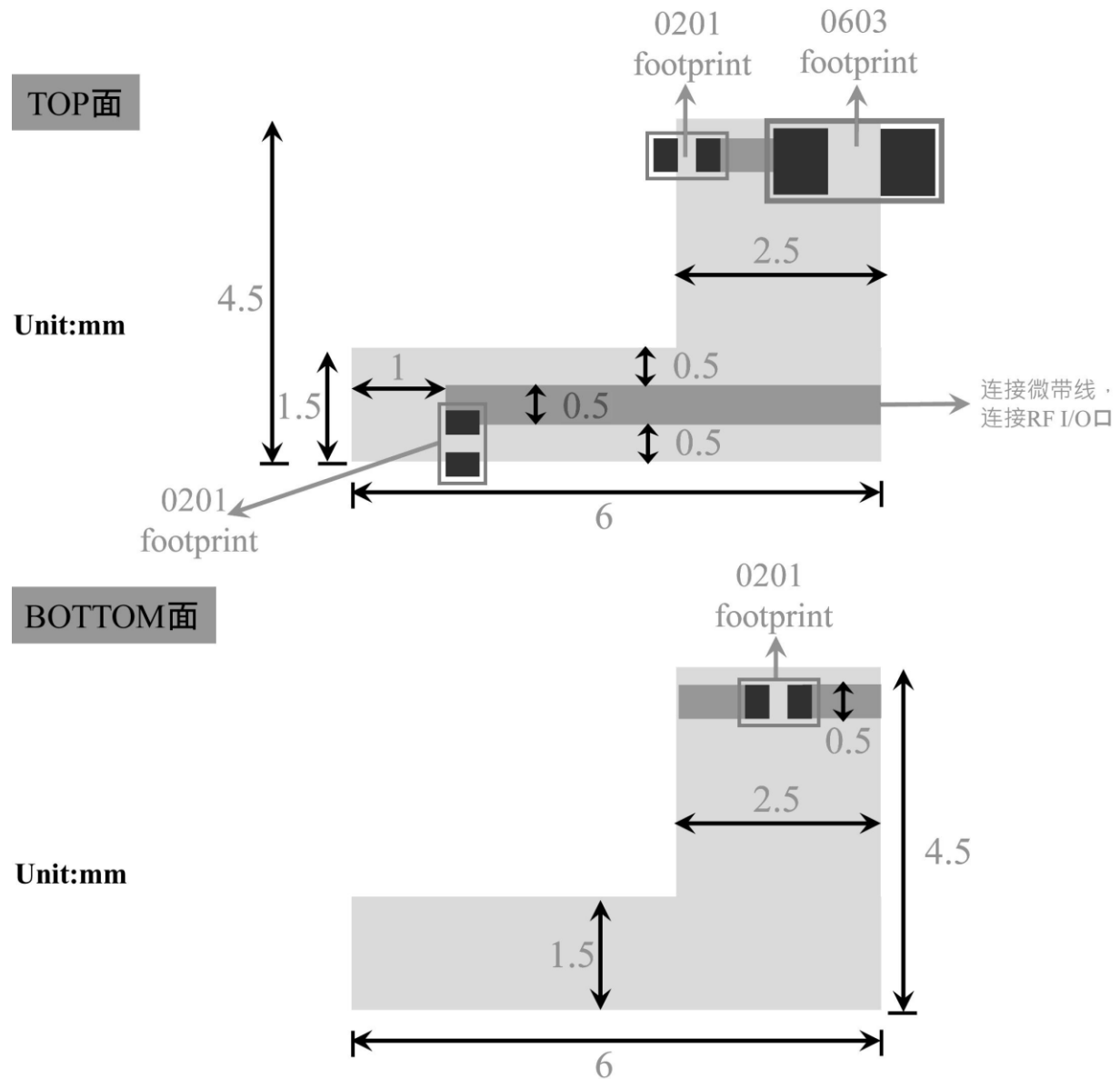
1608

SPEC REV.

P1

UNLESS OTHER SPECIFIED TOLERANCES ON: X = ± X.X = ± X.XX = A N G L E S = + H O L E D I A = +		深圳市玳瑁科技有限公司		
SCALE: N/A	UNIT: mm	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN BY : Sera	CHECKED BY: XD			
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-1608 Specification		DOCUMENT NO.	1608	SPEC REV.
				P1

天线封装方案二 (4.5mm×6mm)



UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=

ANGLES = + HOLEDIA = +

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

1608

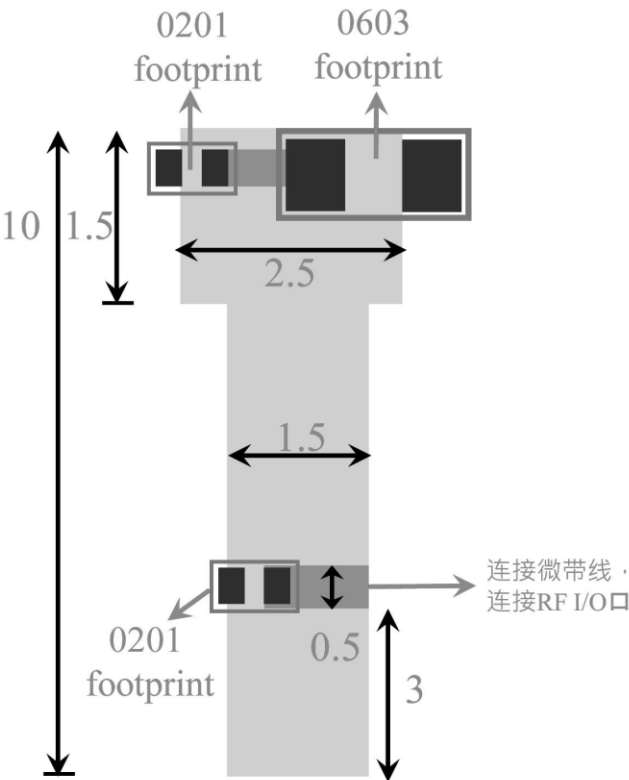
SPEC REV.

P1

天线封装方案三 (1.5mm×10mm)

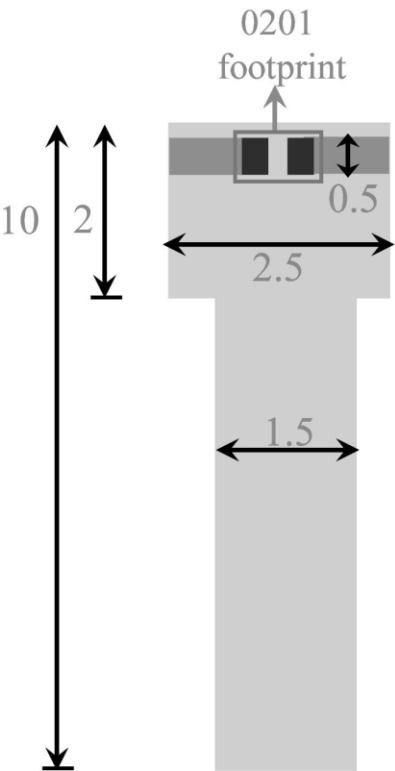
TOP面

Unit:mm



BOTTOM面

Unit:mm

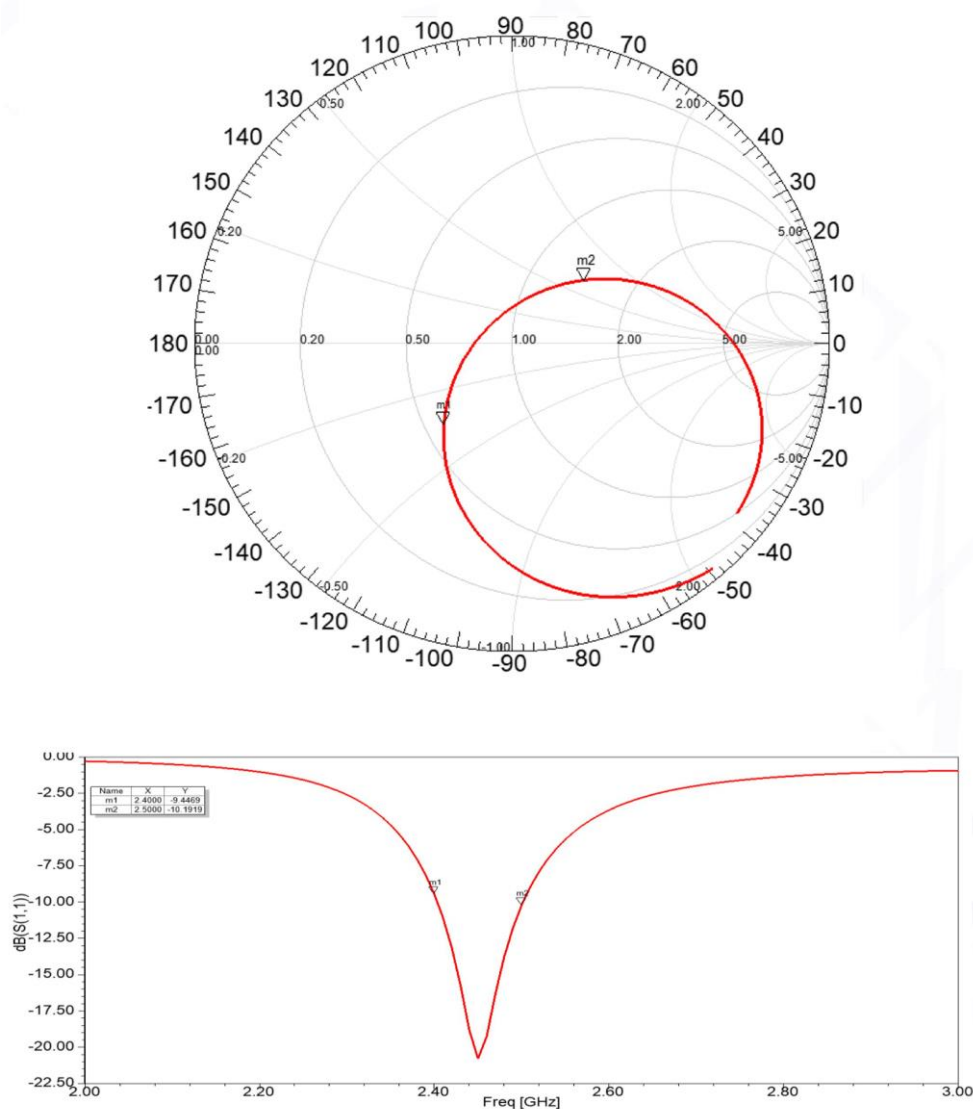


UNLESS OTHER SPECIFIED TOLERANCES ON: X = ± X.X = ± X.XX = A N G L E S = + H O I E D I A = +		深圳市玳瑁科技有限公司		
SCALE: N/A	UNIT: mm	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN BY : Sera	CHECKED BY: XD			
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-1608 Specification		DOCUMENT NO.	1608	SPEC REV. P1

Electrical Characteristics

	Feature	Specification
1	Central frequency	2.45GHz&5.5GHz
2	Bandwidth	>100MHz
3	Peak gain	>3dBi
4	VSWR	<2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

Characteristic Curves



UNLESS OTHER SPECIFIED TOLERANCES ON:

X = $\pm$ X.X = $\pm$ X.XX =

ANGLES = $^{\circ}$ HOLES DIA = $\pm$

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

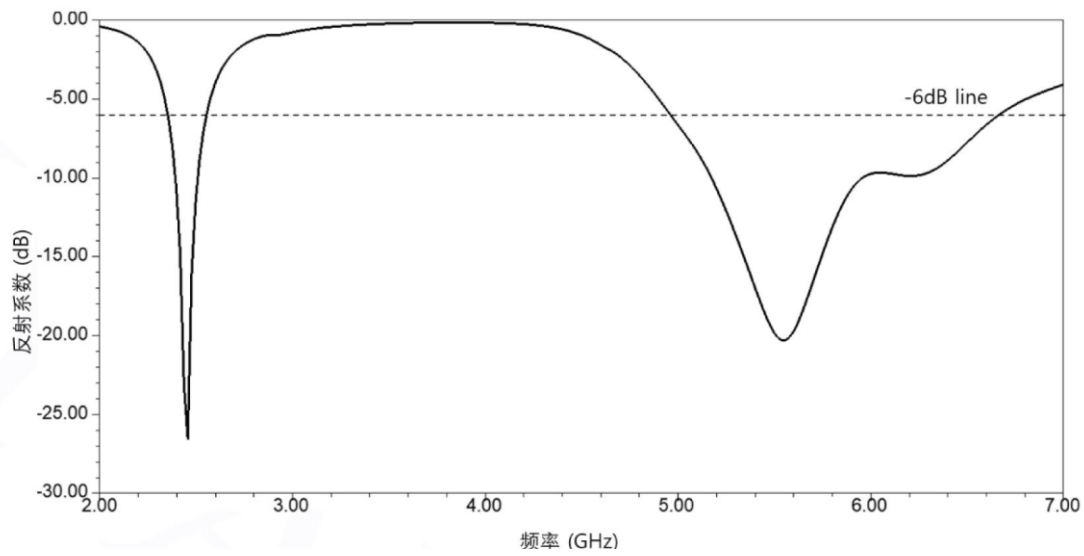
TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

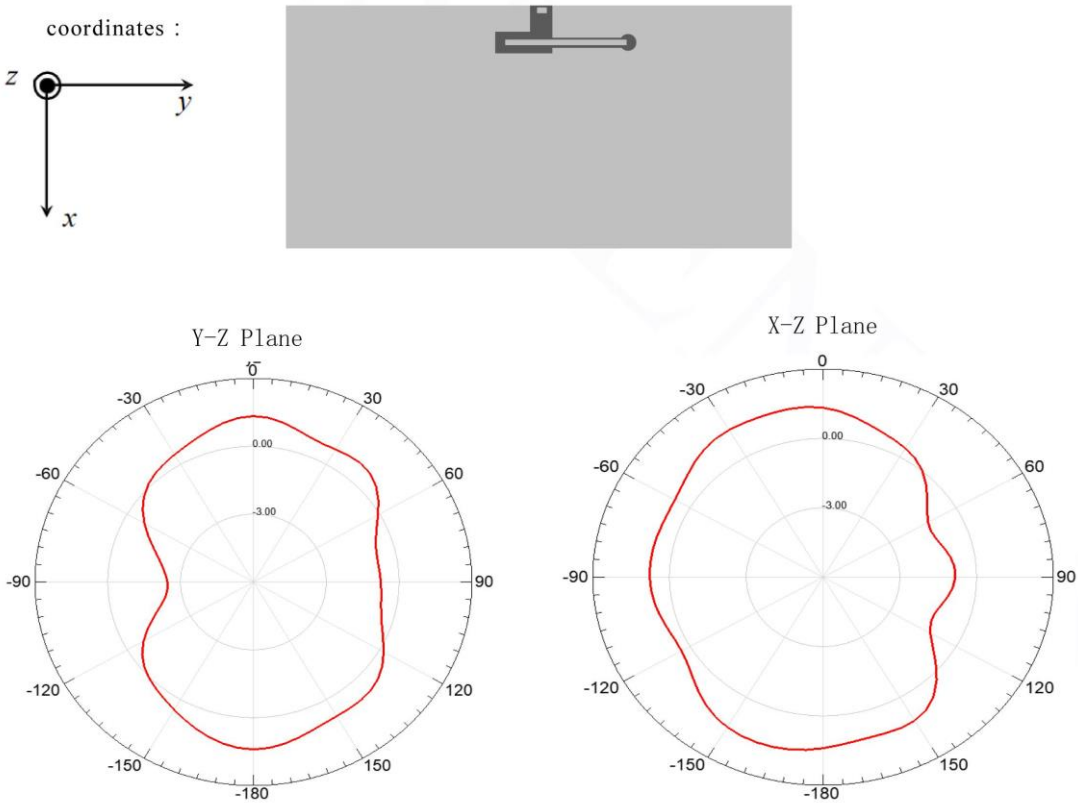
1608

SPEC REV.

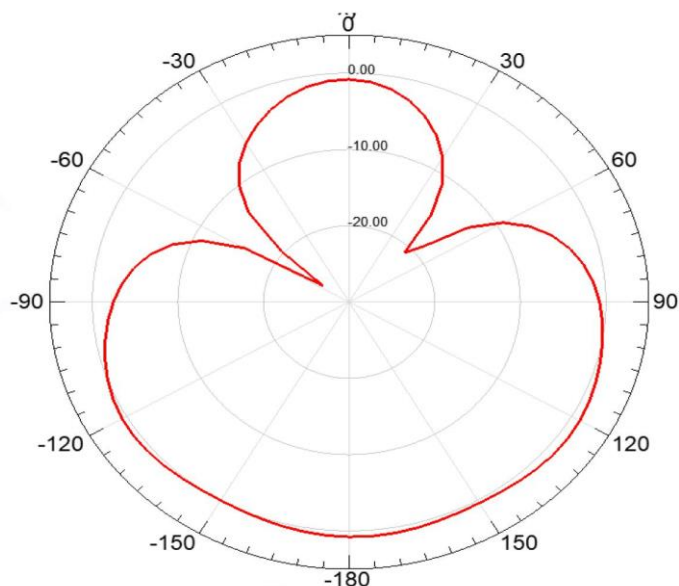
P1



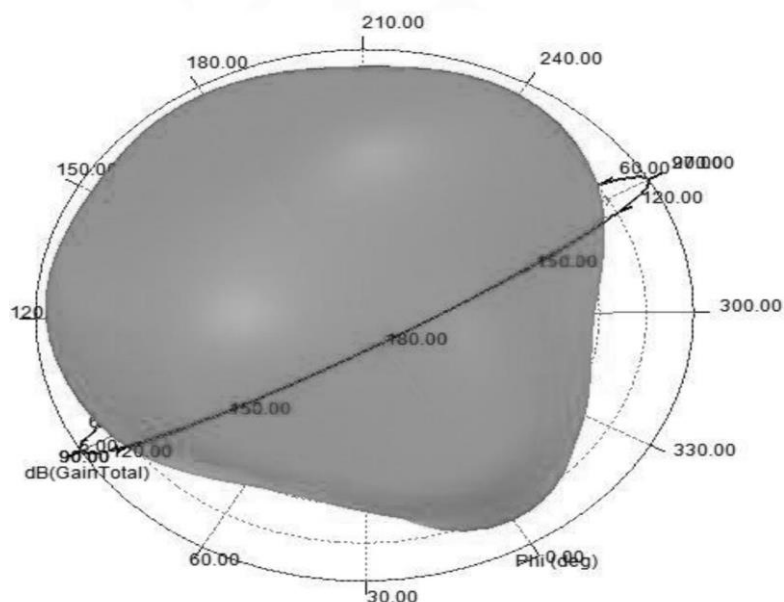
Radiation Pattern



UNLESS OTHER SPECIFIED TOLERANCES ON: X = ± X.X = ± X.XX = ANGLES = + HOLE DIA = +		深圳市玳瑁科技有限公司		
SCALE: N/A	UNIT: mm	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN BY : Sera	CHECKED BY: XD			
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-1608 Specification		DOCUMENT NO.	1608	SPEC REV. P1



3D Radiation Pattern



Frequency	2450MHz	5500MHz
Avg. gain	-0.85	-1.30
Peak gain	3.0	3.5
Efficiency	82%	78%

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=

ANGLES = + HOLEDIA = +

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

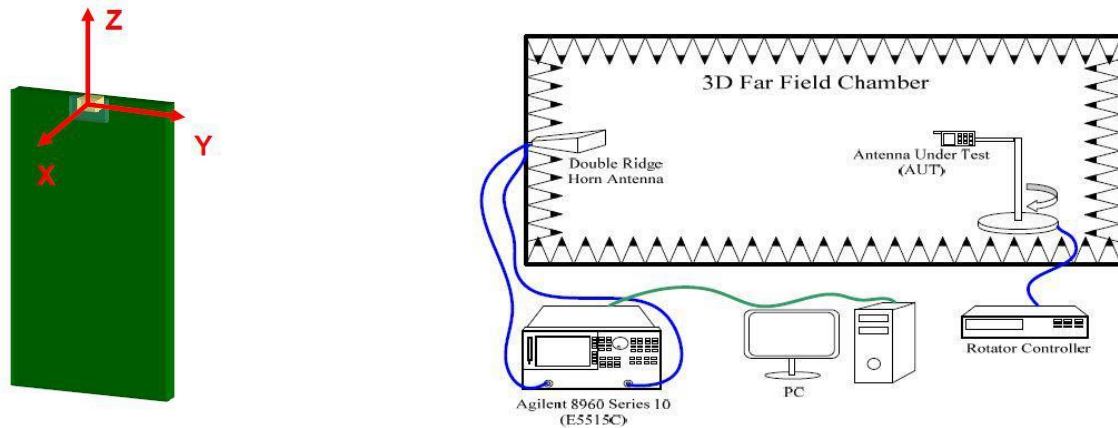
1608

SPEC REV.

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	1. 30±3 minutes at -40° C±5° C, 2. Convert to +105° C (5 minutes) 3. 30±3 minutes at +105° C±5° C, 4. Convert to -40° C (5 minutes) 5. Total 100 continuous cycles	No apparent damage Fulfill the electrical spec. after test.
Humidity resistance	1. Humidity: 85% R.H. 2. Temperature: 85±5° C 3. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
High temperature resistance	1. Temperature: 150° C±5° C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Low temperature resistance	1. Temperature: -40° C±5° C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Soldering heat resistance	1. Solder bath temperature : 260±5°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±5°C for 3±1 seconds.	No apparent damage

(2) Storage Condition

(a) At warehouse:

The temperature should be within 0 ~ 30°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°C.

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=

ANGLES = + HOLEDIA = +

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

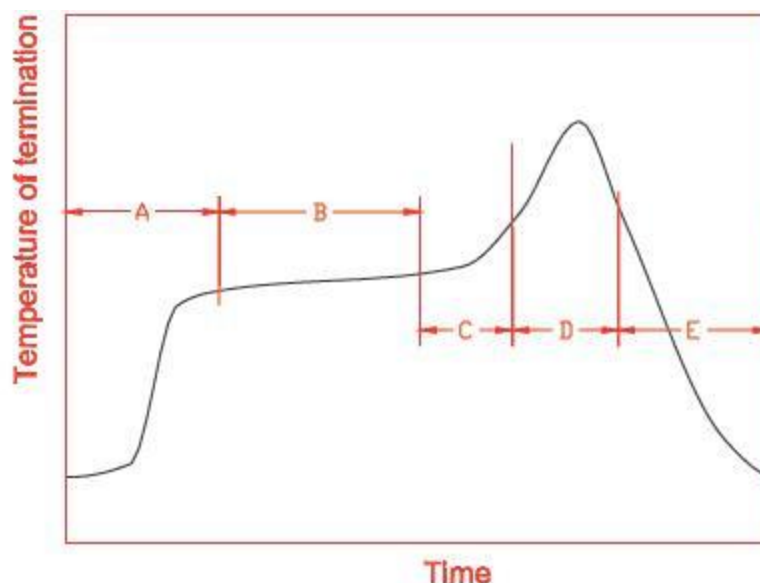
DOCUMENT
NO.

1608

SPEC REV.

P1

8. Recommended Reflow Soldering



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

*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.

UNLESS OTHER SPECIFIED TOLERANCES ON:

X = ± X.X = ± X.XX =

ANGLES = + HOLES DIA = +

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

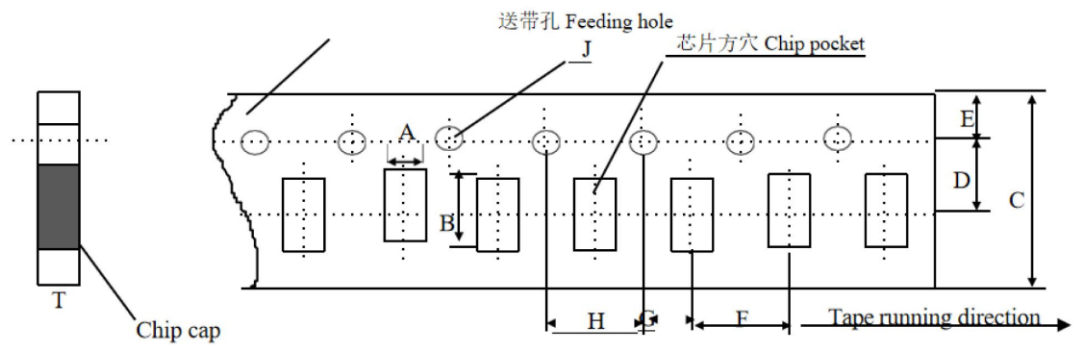
DOCUMENT
NO.

1608

SPEC REV.

P1

Dimensions of paper taping:

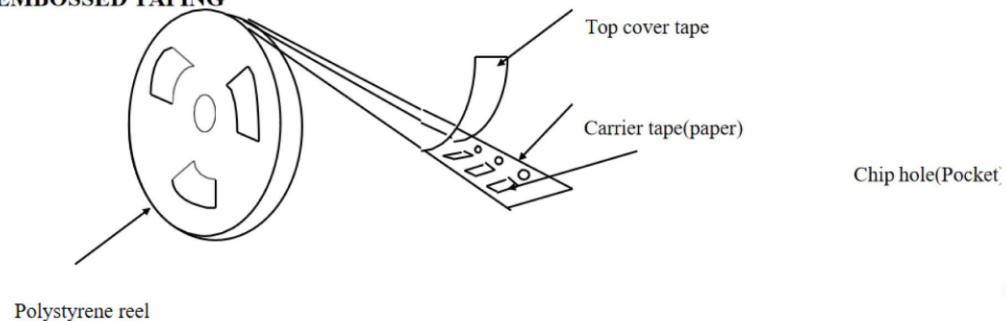


Unit: mm

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

Reel (4000 pcs/Reel)

EMBOSED TAPING



Storage Period

The guaranteed period for solderability is 6 months (Under deliver package condition).
Temperature:5~40℃ /Relative Humidity:20~70%

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±

X.X=±

X.XX=

ANGLES = +

HOLE DIA = +

SCALE: N/A

UNIT: mm

DRAWN BY: Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

深圳市玳瑁科技有限公司

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DMXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE: CHIP2450-1608 Specification

DOCUMENT
NO.

1608

SPEC REV.

P1