ZXL3216C1M08 Specification

Operating Temp.: -40°C~+85°C

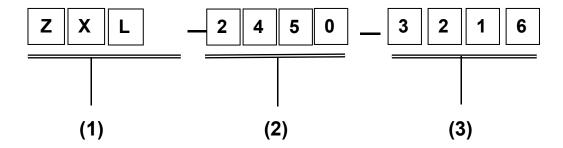
1. FEATURES:

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

2. APPLICATIONS:

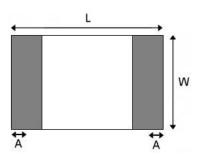
- Bluetooth, Wireless LAN, Mobile TV
- Home RF system, etc

3. PRODUCT IDENTIFICATION



- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 3.2*1.6

4. SHAPE AND DIMENSIONS:





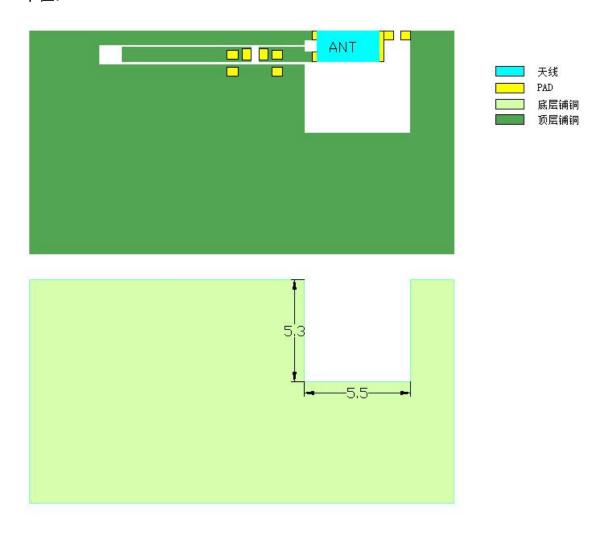
UNLESS OTHER SPECIF	IED TOLERANCES ON:			
$X=\pm$ $X.X=\pm$	X.XX =			
$ANGLES = \pm$	$HOLEDIA = \pm$			
SCALE: N/A	UNIT: mm			
DRAWN BY : Sera	CHECKED BY: XD			
DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-21 Spe	cification	7716		SPEC REV.
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SHAPE AND DIMENSIONS

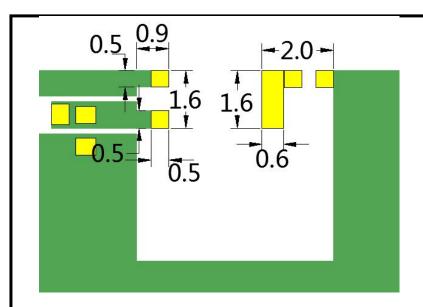
L	W	Н	A
3.1 ± 0.3	1.6 ± 0.3	0.52 ± 0.2	0.4 ± 0.25

测试板参考尺寸:

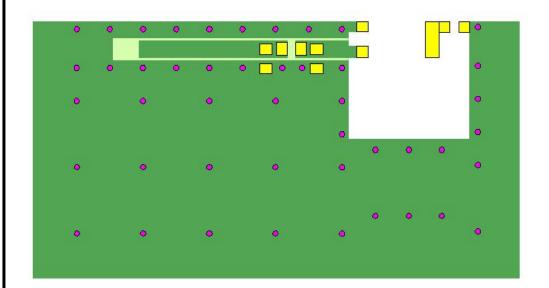
单位: mm



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$ANGLES = \pm$	$HOLEDIA = \pm$			
SCALE: N/A	UNIT: mm			
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TITLE: CHIP2450-21 Specification		DOCUMENT	3216	SPEC REV.
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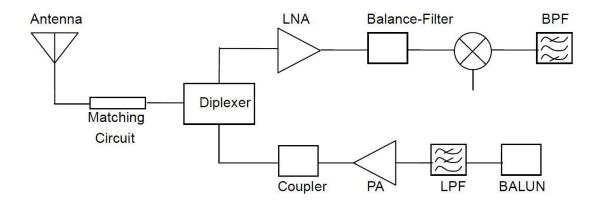
打孔参考示意图



	天线
	PAD
	底层铺铜
	顶层铺铜
•	打孔

UNLESS OTHER SPEC	CIFIED TOLERANCES ON:			
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$ANGLES = \pm$	$HOLEDIA = \pm$			
SCALE: N/A	UNIT: mm			
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DESIGNED BY: Sera	APPROVED BY: XD			
TITLE : CHIP2450-21 Specification		DOCUMENT	3216	SPEC REV.
		NO.	3210	P1

APPLICATION GUIDE



5. SPECIFICATIONS:

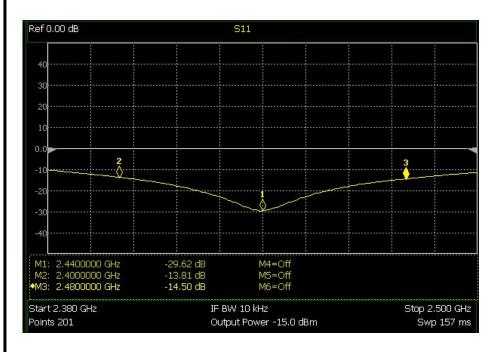
测试项	规格
带宽	2400~2483MHz
极化方式	线极化
*最大增益	2.67dBi
*效率	72. 30%
输入阻抗	50 Ω

* Test condition: Test board size 90*40 mm Matching circuit: Pi matching circuit will be required

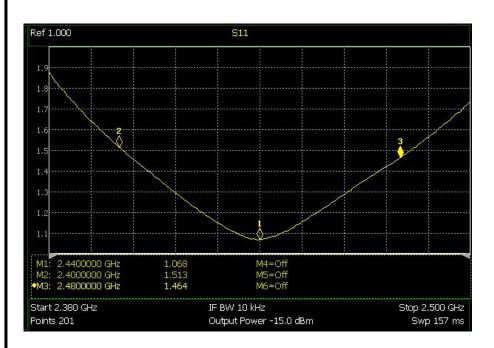
UNLESS OTHER SPEC	CIFIED TOLERANCES ON:			
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SCALE: N/A	UNIT: mm			
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TITLE: CHIP2450-21 Specification		DOCUMENT	3216	SPEC REV.
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6. Electrical Characteristics:

回波损耗



驻波比

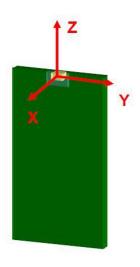


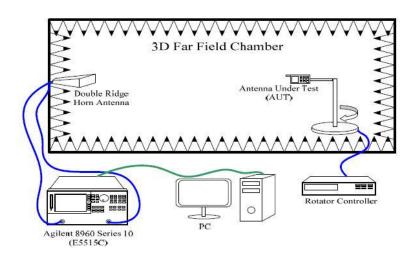
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DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-21 Spe	cification	7716		SPEC REV.
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Mark	Frequency	VSWR
1	2400 MHz	1. 513
2	2440 MHz	1.068
3	2480 MHz	1. 464

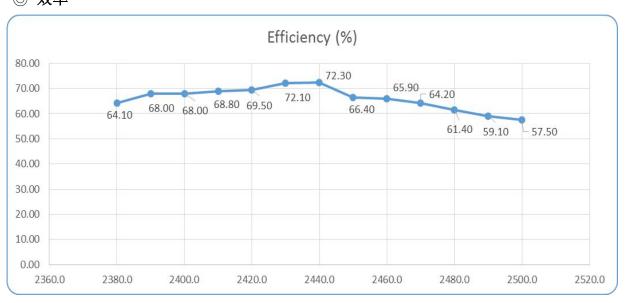
Radiation Pattern

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.



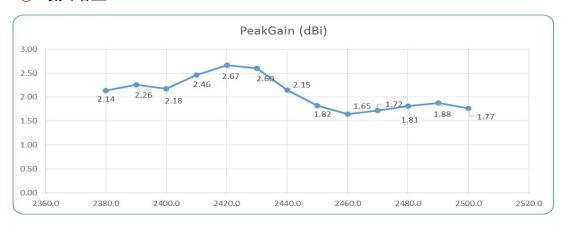


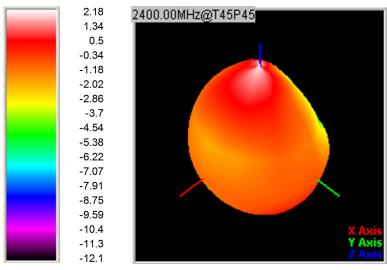
◎ 效率

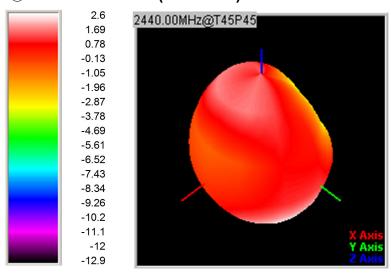


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TITLE : CHIP2450-21 S	specification	DOCUMENT	3216	SPEC REV.
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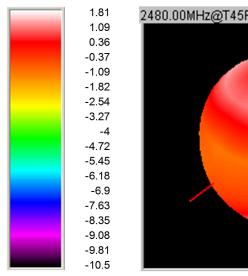
◎ 最大增益

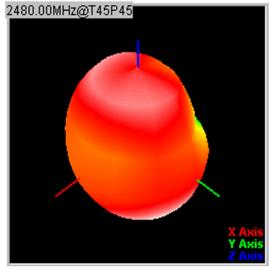






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TITLE : CHIP2450-21 S	necification	DOCUMENT	3216	SPEC REV.
TITLE : OTHE 2430-21 Specification		NO. 3216	P1	





7. Environmental Characteristics

(1) Reliability Test

_		
Item	Condition	Specification
Thermal shock	1. 30 ± 3 minutes at -40° C $\pm5^{\circ}$ C, 2. Convert to $+105^{\circ}$ C (5 minutes) 3. 30 ± 3 minutes at $+105^{\circ}$ C $\pm5^{\circ}$ C, 4. Convert to -40° C (5 minutes) 5. Total 100 continuous cycles	No apparent damage Fulfill the electrical spec. after test.
Humidity resistance	 Humidity: 85% R.H. Temperature: 85±5° C 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.
	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℃ 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 $245\pm5^{\circ}\mathrm{C}$ for 3 ± 1 seconds.	No apparent damage

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DESIGNED BY: Sera	APPROVED BY: XD			
TITLE: CHIP2450-21 Specification		DOCUMENT	3216	SPEC REV.
		NO. 3210	J210	P1

(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.

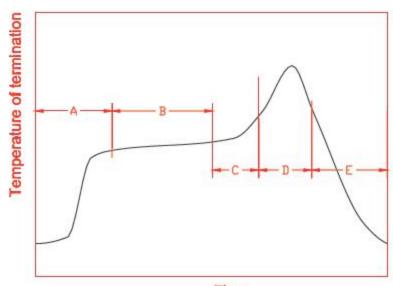
(b) On board:

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 $+105^{\circ}$ C.

8. Recommended Reflow Soldering



Time The normal to Preheating 1st rising temperature 30s to 60s temperature Preheating 140°C to 160°C 60s to 120s В 2nd rising temperature Preheating to 200°C 20s to 40s 50s~60s if 220℃ if 230°C 40s~50s 30s~40s if 240°C D Main heating 20s~40s if 250°C 20s~40s if 260°C 200°C to 100°C 1°C/s ~ 4°C/s Regular cooling

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

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		NO. 3210	P1	

(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.

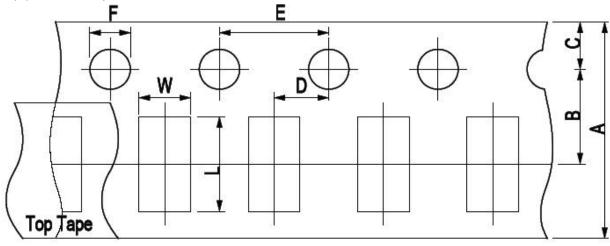
(2) Soldering Volume

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

9. Taping Package and Label Marking: (unit: mm)

(1) Quantity/Reel: 5000pcs/Reel

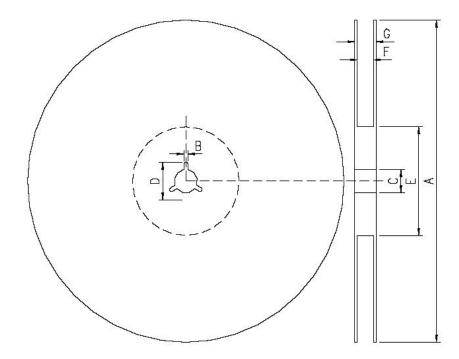
(2) Carrier tape dimensions



Туре	A	В	С	D	Е	F	L	W
2450-21	8.00 \pm 0.3	3.50 ± 0.05	1.75 ± 0.1	2.00 ± 0.05	4.00 ± 0.1	1.50 \pm 0.1	2.30 ± 0.1	1.55 \pm 0.1

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		NO.	NO. 3210	P1

(3) Taping reel dimensions



Α	178.0±2.0
В	2.0±0.5
C	13.0±0.5
D	21.0±0.8
Ε	62.0±1.5
F	9.0±0.5
G	13.0±1.0

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