

产品规格承认书

SPECIFICATIONS

客户:

CUSTOMER: _____

产品名称:

DESCRIPTION: Monopole Antenna

客户型号:

CUSTOMER PART No: _____

产品型号:

OUR MODEL NO: PBX5621DA01

日期:

DATE: 2021/01/22

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	王海	审核	刘飞	制作	刘小美
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客户确认签章(APPROVED SIGNATURE)

UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=± ANGLES =± HOLE DIA =±		 Shenzhen Pengban Xingye Technology Co., Ltd
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DESIGNED BY: Sera APPROVED BY: ZL		
TITLE: CHIP 2450-5621	DOCUMENT NO.	5621 单极
		SPEC REV. P1
		PAGE 1 OF 11

PBX5621DA01 Specification

Operating Temp. : -40°C~+85°C

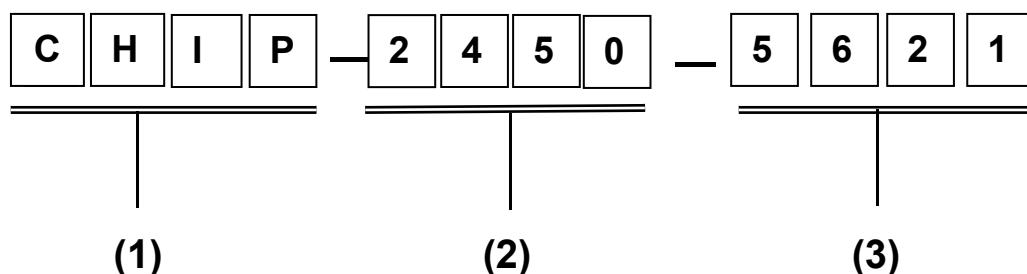
1. FEATURES:

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

2. APPLICATIONS:

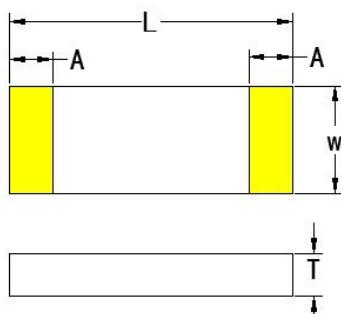
- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

3. PRODUCT IDENTIFICATION



- (1) Product type: Multilayer chip Antenna
- (2) Center Frequency: 2450MHz
- (3) External Dimensions (L×W) (mm): 5.6*2.1

4. SHAPE AND DIMENSIONS:



Unit:mm	L	W	A	T
CHIP-5621	5.6±0.2	2.15±0.2	0.45±0.1	1.15±0.1

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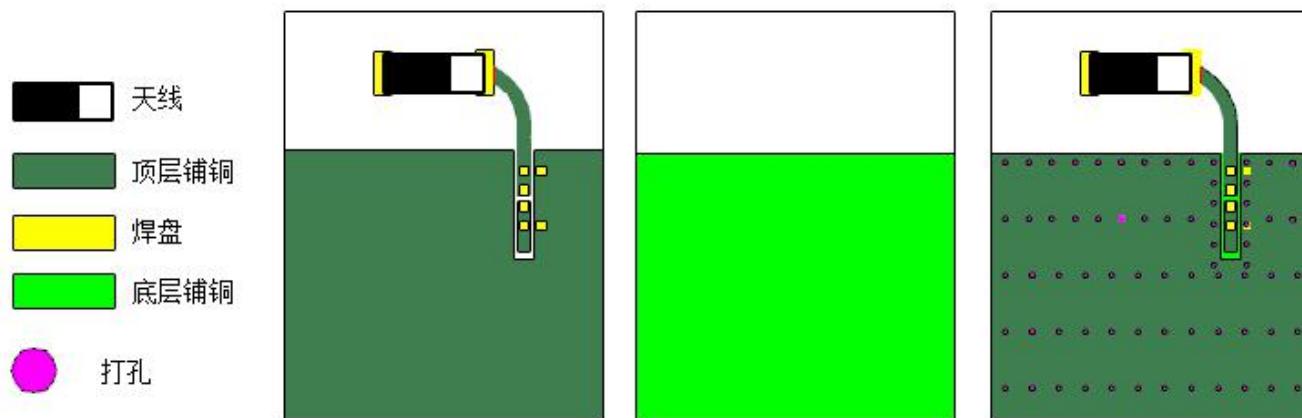
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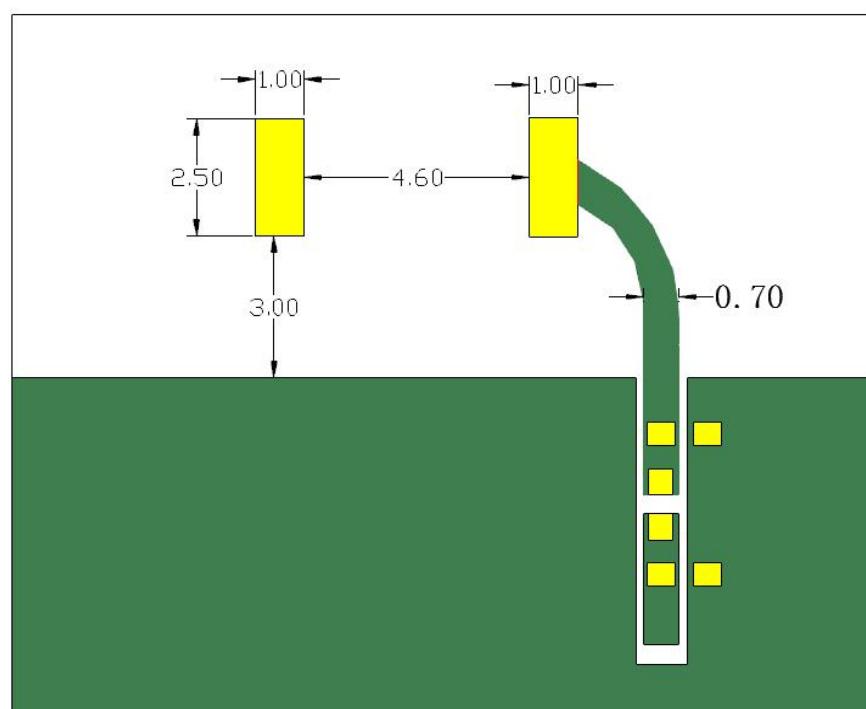
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测试板参考尺寸:

单位: mm



PBX5621DA01 焊盘尺寸:



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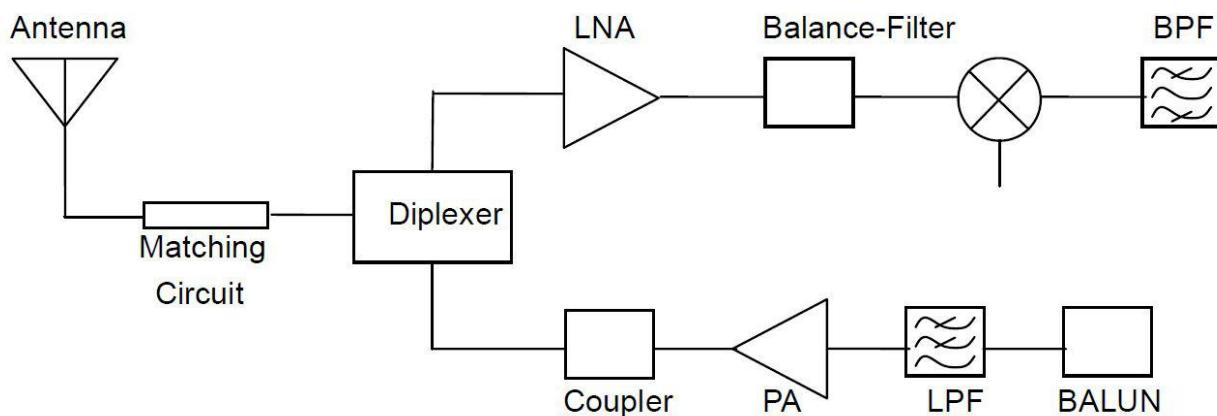
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P1

APPLICATION GUIDE



5. SPECIFICATIONS:

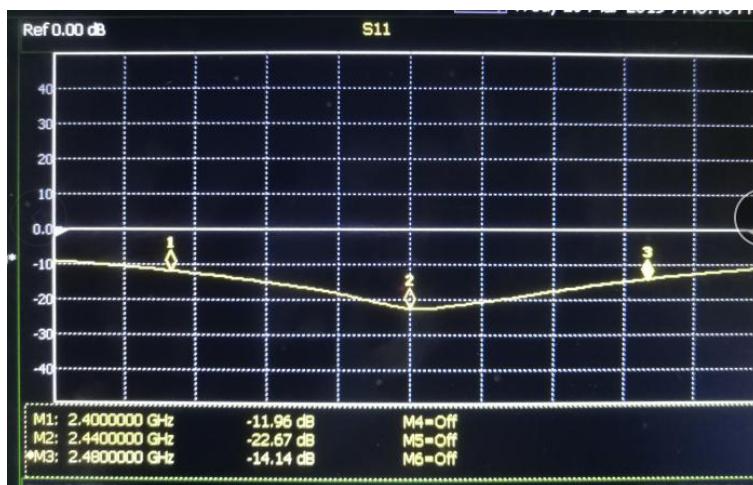
测试项	规格
应用频段	2400–2500MHz
极化方式	线极化
*最大增益	5dBi
*效率	70. 10%
输入阻抗	50 Ω

* Test condition: Test board size 86*50 mm

Matching circuit: Pi matching circuit will be required

6. Electrical Characteristics :

Return Loss



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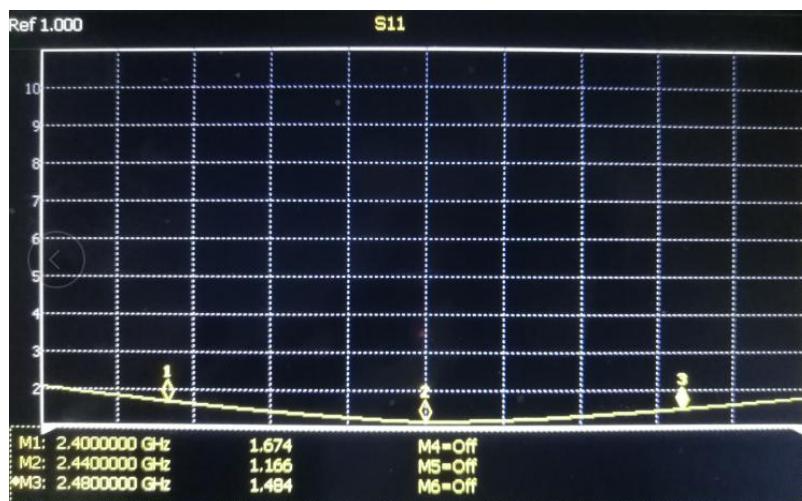
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P1



VSWR

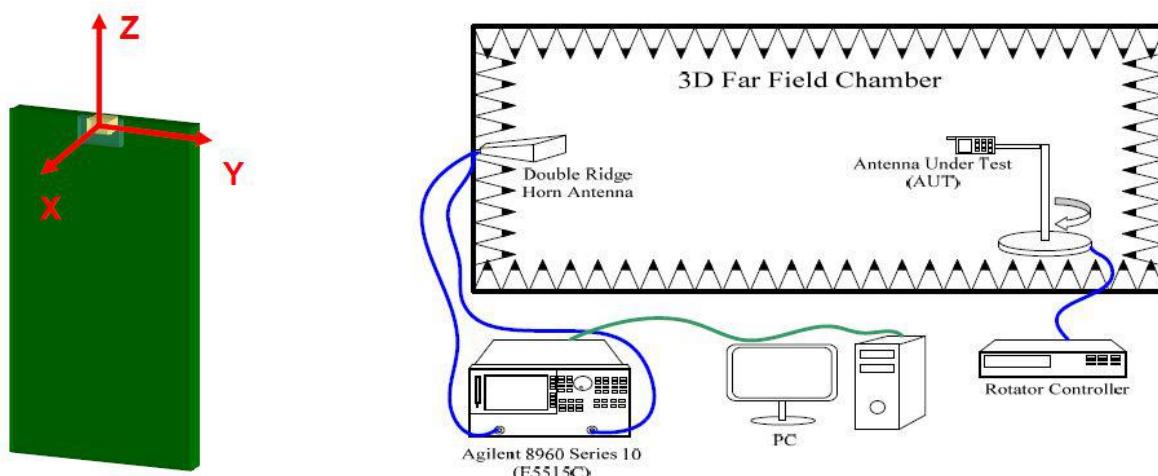


Mark	Frequency	VSWR
1	2400 MHz	1.674
2	2440 MHz	1.166
3	2480 MHz	1.484

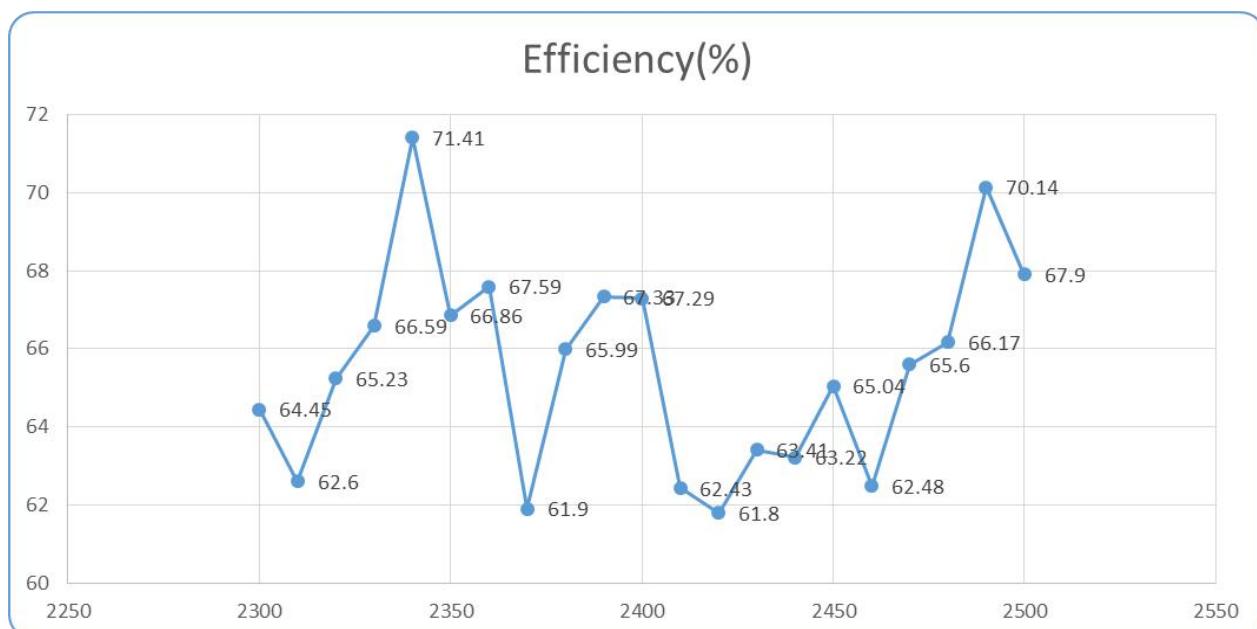
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		SPEC REV.
		P1
	PAGE 5	OF 11

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.

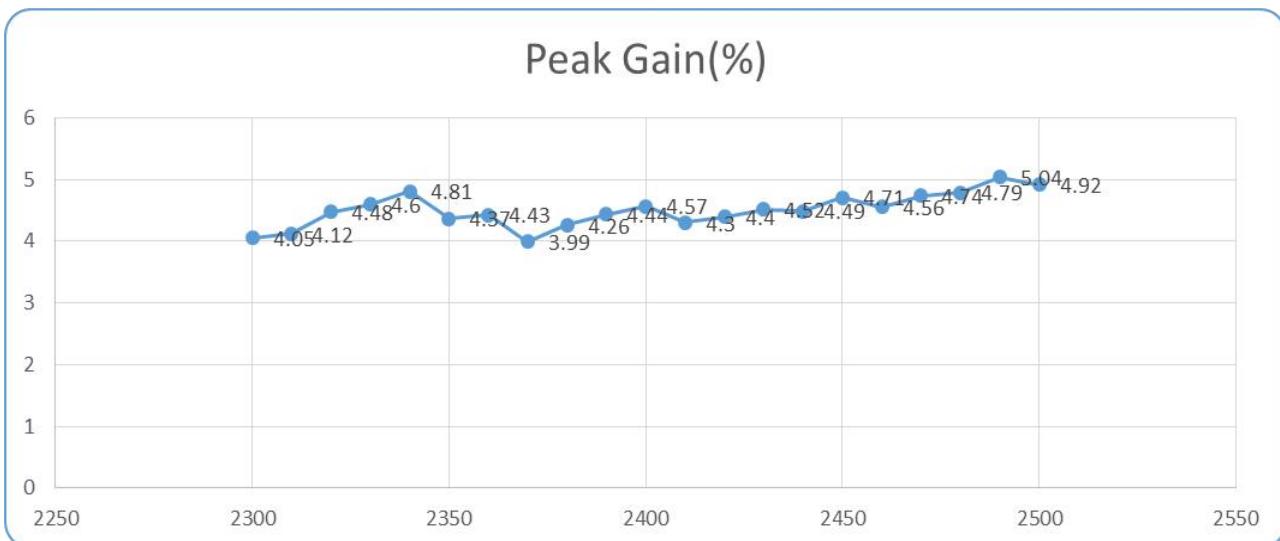


Efficiency



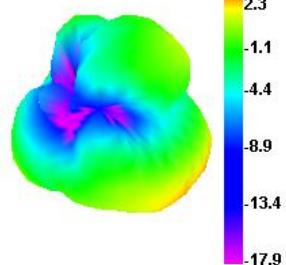
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			P1
		PAGE 6	OF 11

◎ Maximum Gain

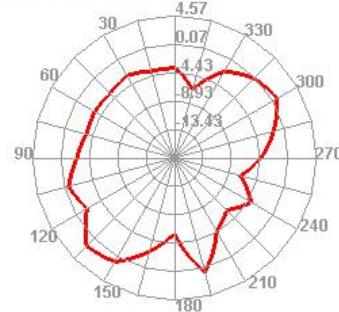


◎ 3D Gain Pattern (2400 MHz)

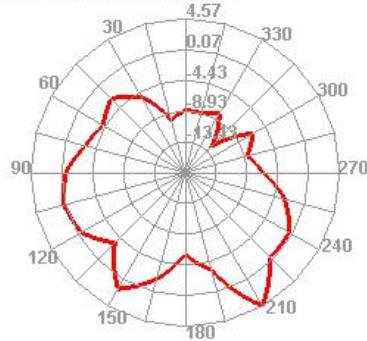
2400.000MHz



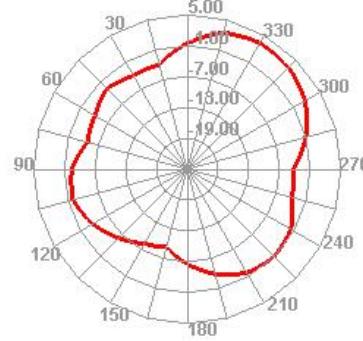
2400.000MHz E2



2400.000MHz E1



2400.000MHz H



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X=± X.X=± X.XX=

ANGLES=±

HOLE DIA=±

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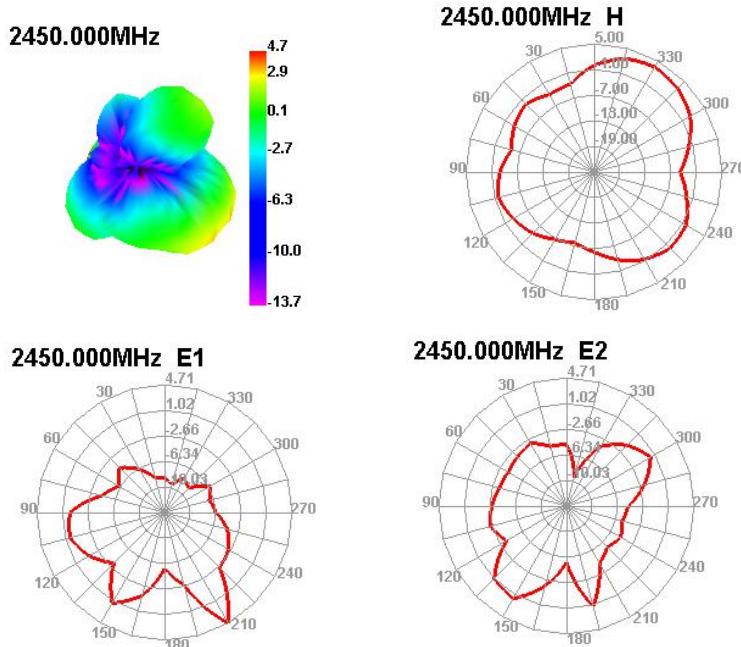
TITLE: CHIP 2450-5621

DOCUMENT NO.

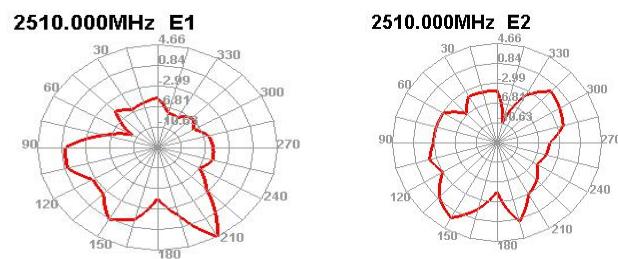
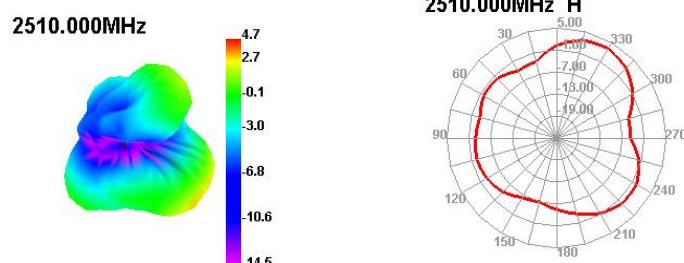
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P1

◎ 3D Gain Pattern (2450 MHz)



◎ 3D Gain Pattern (2510 MHz)



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				P1
			PAGE 8 OF 11	

7. Environmental Characteristics

(1) Reliability Test

Item	Condition	Specification
Thermal shock	1. 30 ± 3 minutes at $-40^\circ C \pm 5^\circ C$, 2. Convert to $+105^\circ C$ (5 minutes) 3. 30 ± 3 minutes at $+105^\circ C \pm 5^\circ C$, 4. Convert to $-40^\circ C$ (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: $85 \pm 5^\circ C$ 3. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
High temperature resistance	1. Temperature: $150^\circ C \pm 5^\circ C$ 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Low temperature resistance	1. Temperature: $-40^\circ C \pm 5^\circ C$ 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.
Soldering heat resistance	1. Solder bath temperature : $260 \pm 5^\circ C$ 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 $245 \pm 5^\circ C$ for 3 ± 1 seconds.	No apparent damage

(2) Storage Condition

(a) At warehouse:

The temperature should be within $0 \sim 30^\circ C$ and humidity should be less than 60% RH.

The product should be used within 1 year from the time of delivery.

(b) On board:

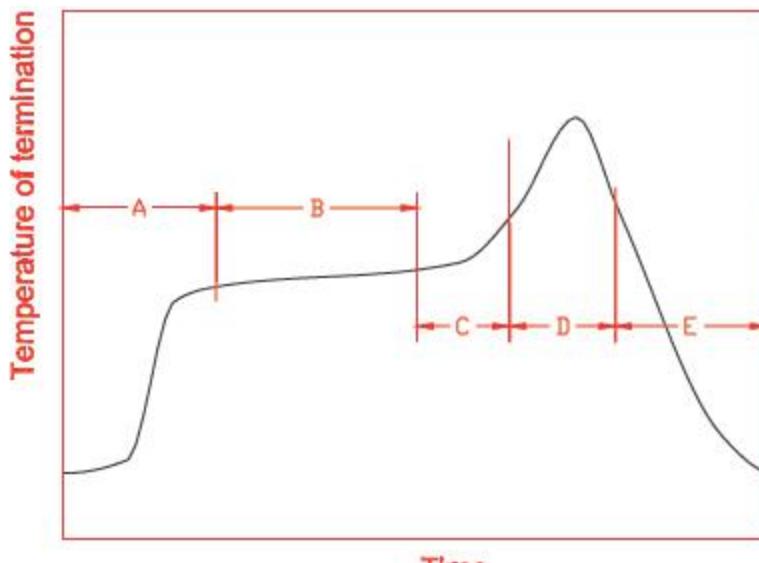
The temperature should be within $-40 \sim 85^\circ C$ and humidity should be less than 85% RH.

(3) Operating Temperature Range

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

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		SPEC REV. P1
		PAGE 9 OF 11

8. Recommended Reflow Soldering



Time			
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.

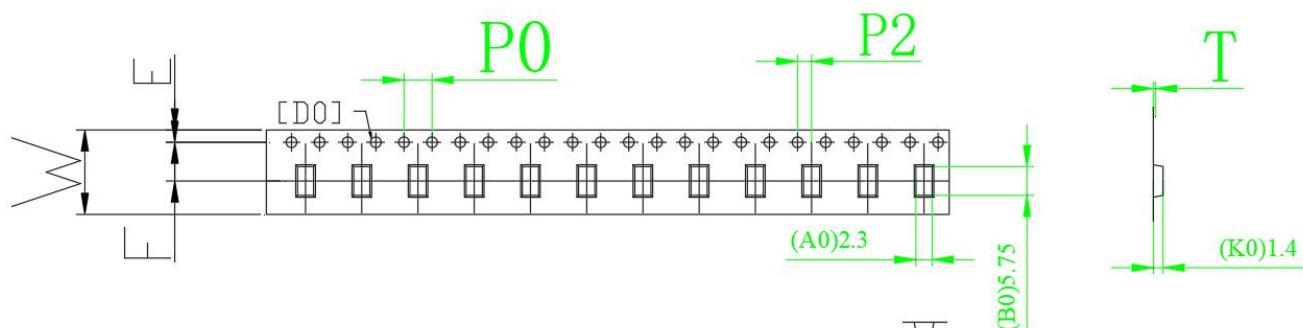
(2) Soldering Volume

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

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			SPEC REV.
			P1
		PAGE	10
		OF	11

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

(1) Quantity/Reel: 3000pcs/Reel



ITEM	W	A0	B0	K0	K1	P	F	E	S0	D0	D1	P0	P2	T
DIM	12.00	2.30	5.75	1.40	0.00	8.00	5.50	1.75	52.40	1.50	0.00	4.00	2.00	0.30

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		SPEC REV. P1
		PAGE 11 OF 11