

深圳市朋伴兴业科技有限公司

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电话：0755-29486410 传真：0755-83582856

产品规格承认书

SPECIFICATIONS

编号	
品名	PBX5621MA01
客户型号	
制作	刘 小 美
审核	刘 飞
日期	2019.11.18

客户承认签印	
日期	

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=±

X.XX=

ANGLES=±

HOLE DIA=±



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SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: ZL

DESIGNED BY: Sera

APPROVED BY: ZL

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PBX5621MA01 Specification

Operating Temp. : -40℃~+85℃

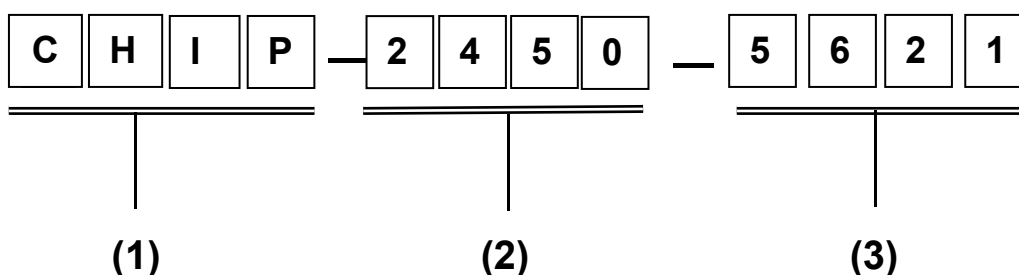
1. FEATURES:

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

2. APPLICATIONS:

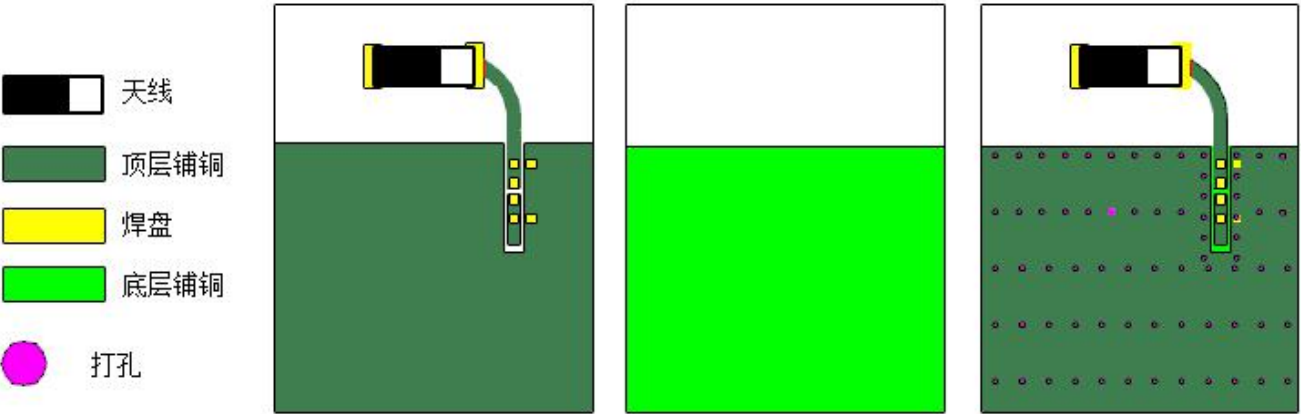
- Bluetooth, Wireless LAN, Mobile TV
- Home RF system, etc

3. PRODUCT IDENTIFICATION

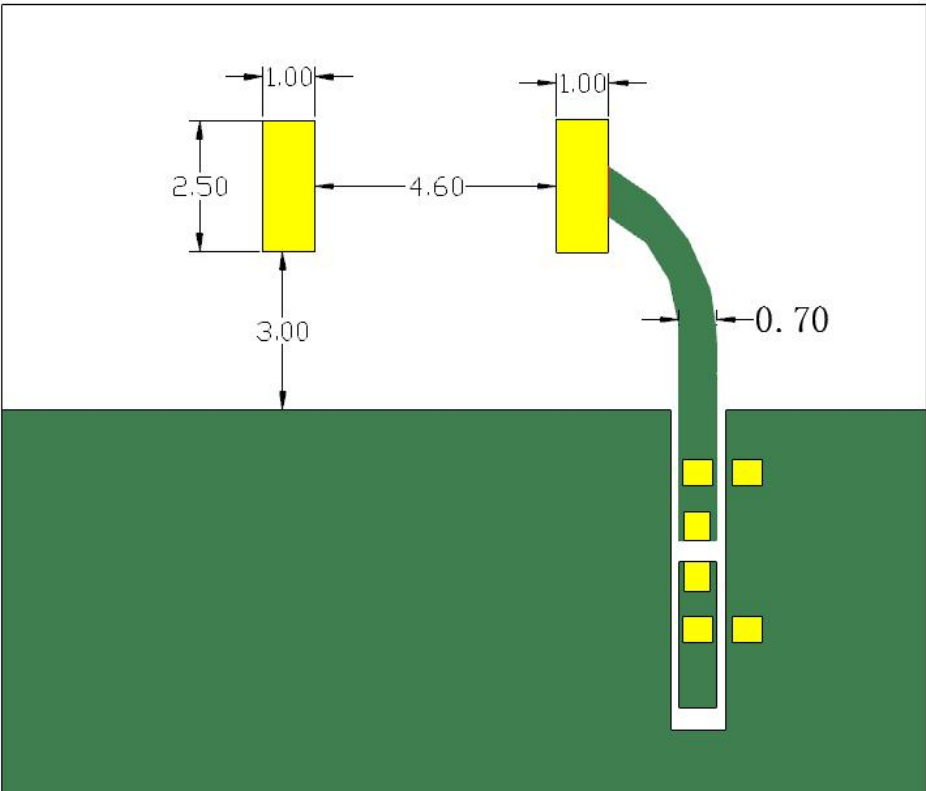



测试板参考尺寸:

单位: mm

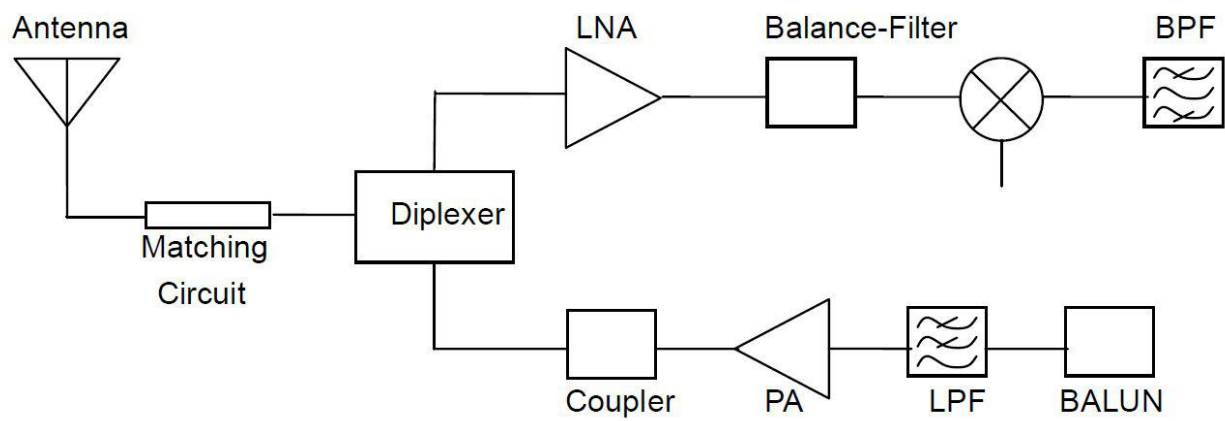


PBX5621MA01 焊盘尺寸:



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APPLICATION GUIDE



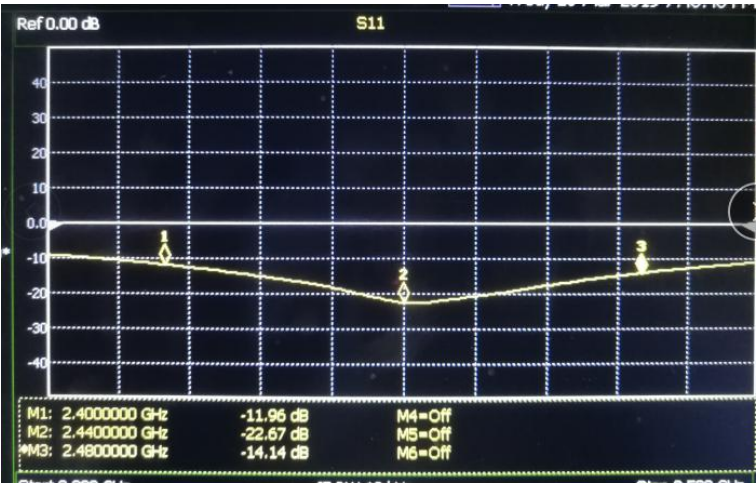
5. SPECIFICATIONS:

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 :

回波损耗



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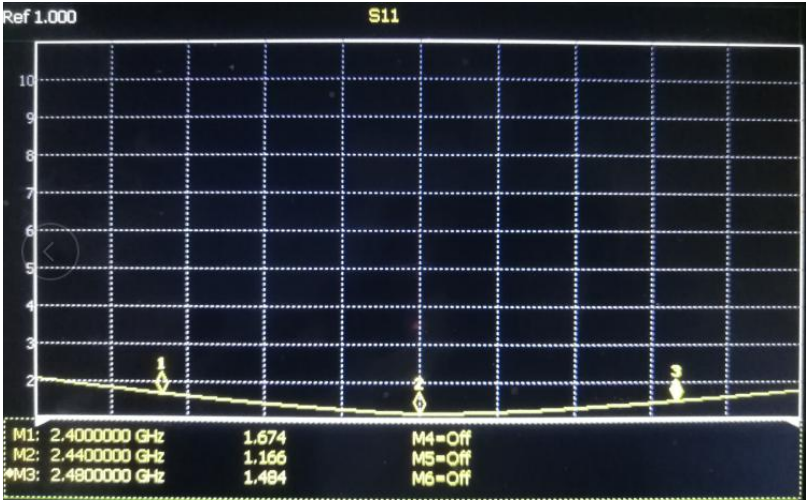
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驻波比



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

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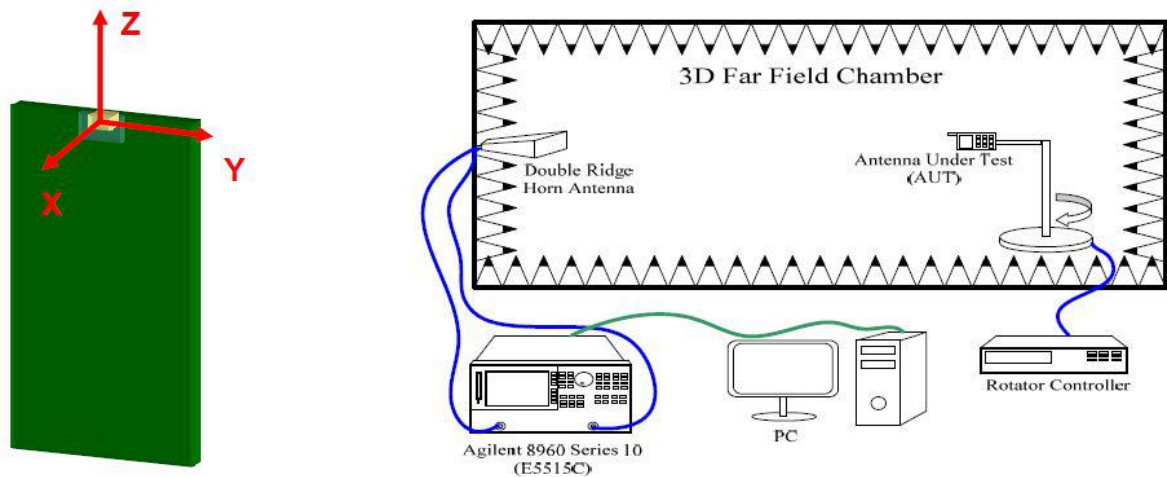
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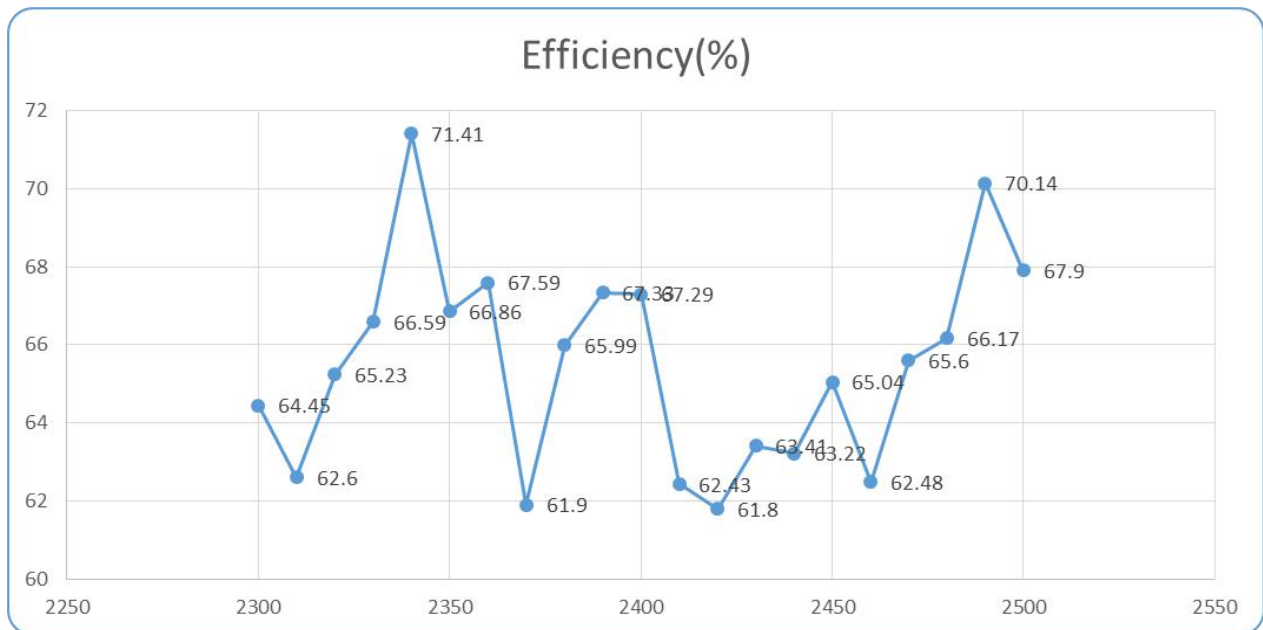
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Radiation Pattern

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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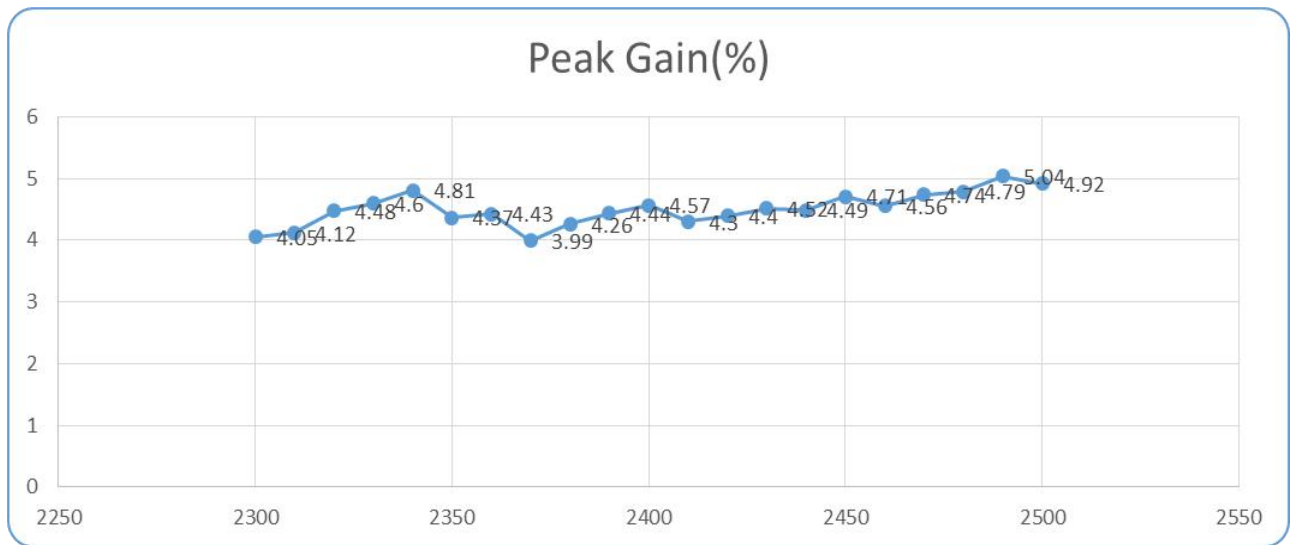
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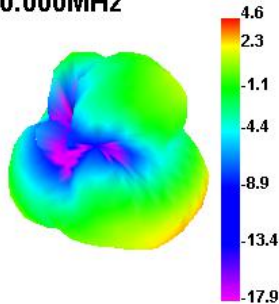
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◎ 最大增益

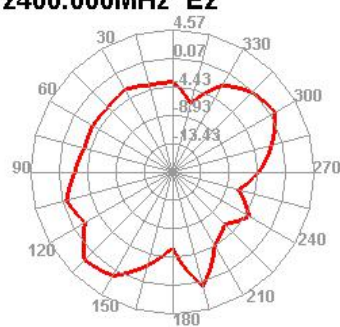


◎ 3D Gain Pattern (2400 MHz)

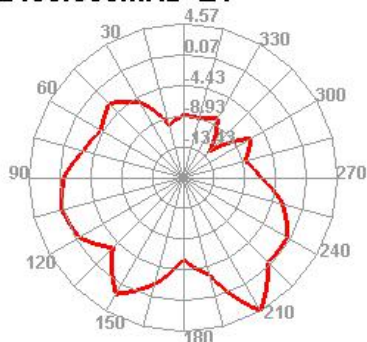
2400.000MHz



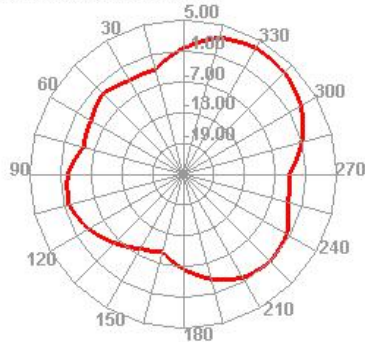
2400.000MHz E2



2400.000MHz E1



2400.000MHz H



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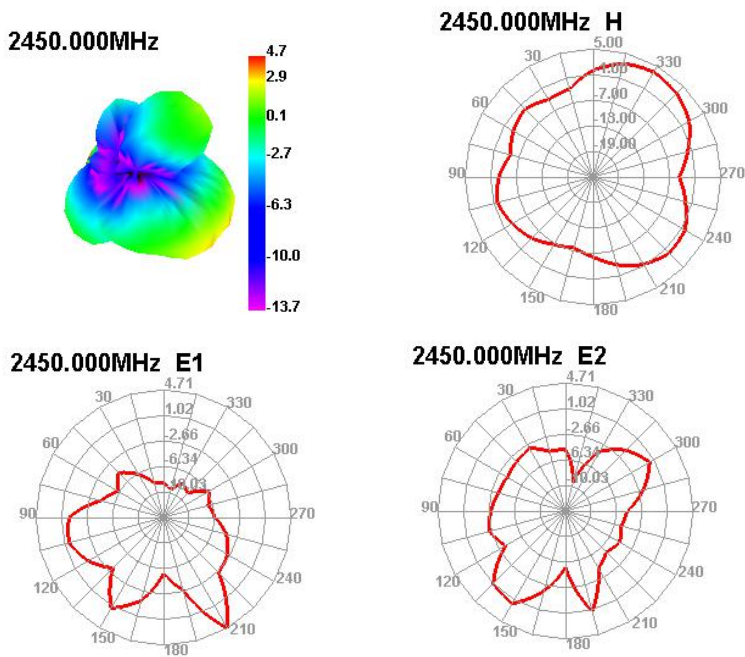
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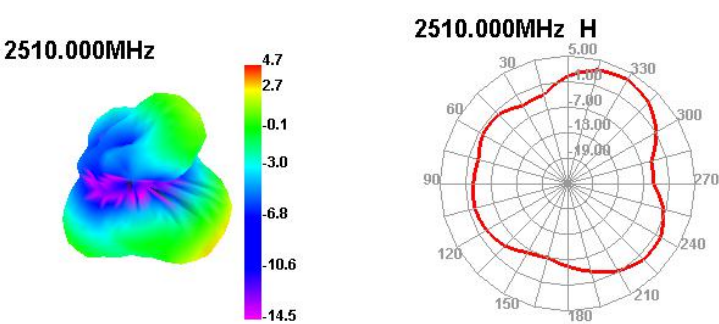
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◎ 3D Gain Pattern (2450 MHz)

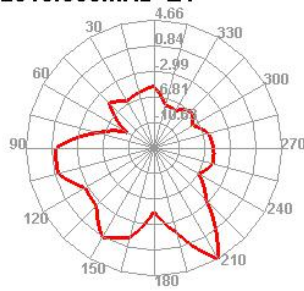


◎ 3D Gain Pattern (2510 MHz)

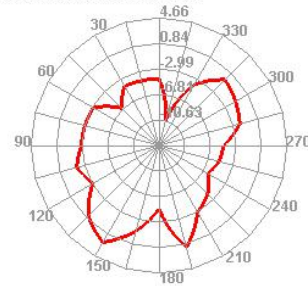


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2510.000MHz E1



2510.000MHz E2



7. Environmental Characteristics

(1) Reliability Test

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

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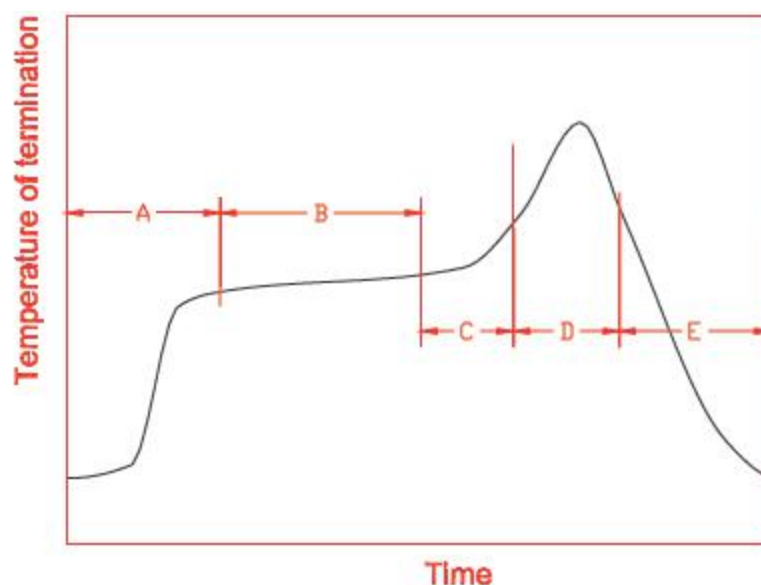
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(3) Operating Temperature Range

Operating temperature range : -40℃ to +105℃.

8. Recommended Reflow Soldering



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

*reference: J-STD-020C

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(1) Soldering Gun Procedure

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

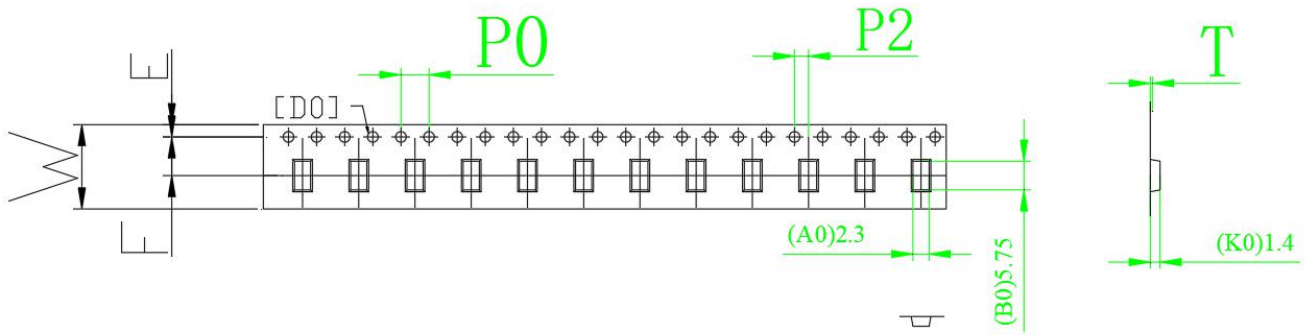
- (a) The tip temperature must be less than 350°C for the period within 3 seconds by using soldering gun under 30 W.
- (b) The soldering gun tip shall not touch this product directly.

(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: 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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