

SPECIFICATION FOR APPROVAL

CUSTOMER:	九联
CUSTOMER MODEL NO:	UNG138E8
XUNDA PRODUCT P/N:	XD1C-B052P3D-49Q
PRODUCT TYPE:	5GHz
REVISION	V0.1
DATE	2025-3-26

XUNDA TECHNOLOGY			CUSTOMER APPROVED		
PREPARED BY	CHECKED BY	APPROVED BY	PREPARED BY	CHECKED BY	APPROVED BY
Huanghuixin	Zhangxun	Duanwei			

VersionInformation

Date	Revision	Comment	Author
2025-3-26	0.1	Initial released	Huanghuixin

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1. Product Summary

1.1. XD1C-B052P3D-49Q is a 5.15-5.85GHz antenna designed with patented technology. It can be easily integrated into the machine. It has high efficiency and good performance, and easy to assemble for mass production.

1.2. XD1C-B052P3D-49Q is an ideal solution for wireless network equipment, such as access points, routers, and gateways.

1.3. XD1C-B052P3D-49Q are RoHS compliant.

2. Features Specification

2.1. IEEE 802.11 b/g/n/ac/ax standards

2.2. High efficiency

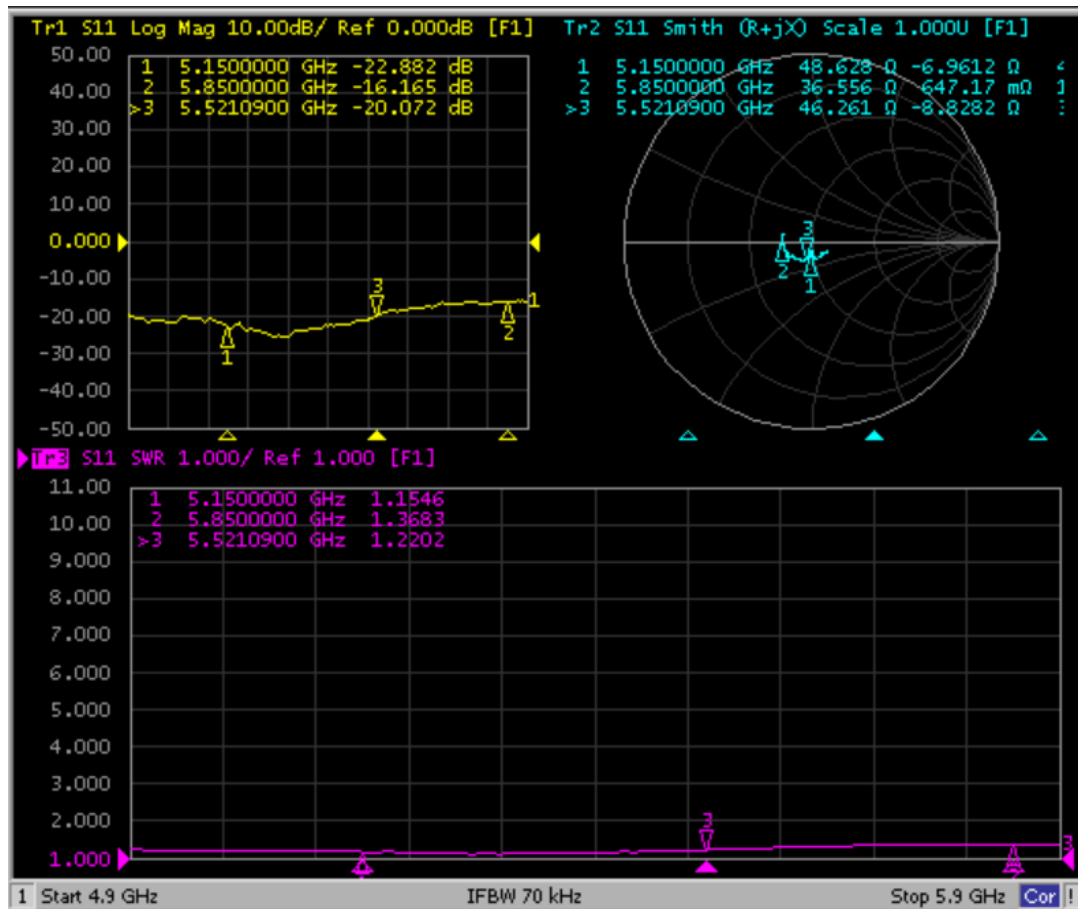
2.3. Quick integration

3. Overall performance

Items	Specification
Frequency Range	5.15~5.85GHz
Feed Impedance	50 Ω
Gain	3 $\pm$ 1 dBi
VSWR	$\leq$ 2.0
Return Loss	$\leq$ -10dB
Admitted Power	10W
Polarization	Linear, Vertical
Connector Type	I-PEX
Antenna Base	PCB
Operating Temp	-20°C~+65°C
Operating Relative Humidity	5%RH ~ 95%RH
Storage Temp	-30°C~+75°C
Storage Relative Humidity	5%RH ~ 95%RH

4. Product Characteristics

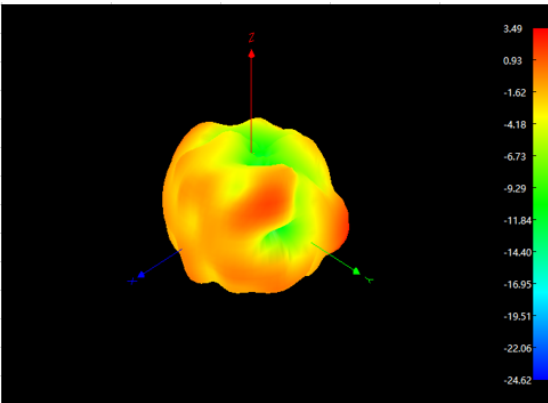
4.1. Return Loss



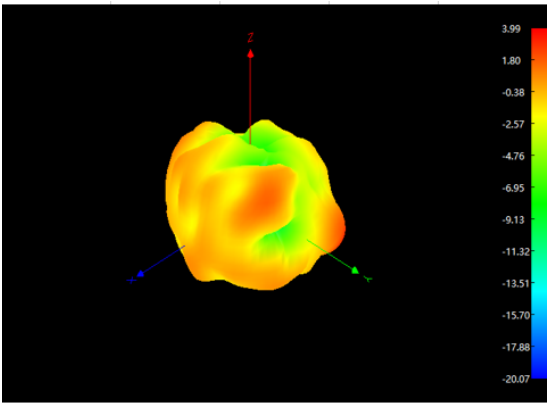
4.2. Radiation Pattern

3D&2D Radiation Pattern

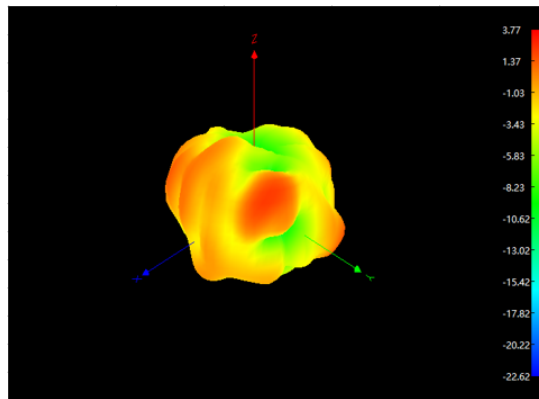
频点	增益 (dBi)	效率
5.15GHz	3.49	65.61%
5.35GHz	3.99	66.53%
5.75GHz	3.77	64.86%
5.85GHz	3.85	61.66%



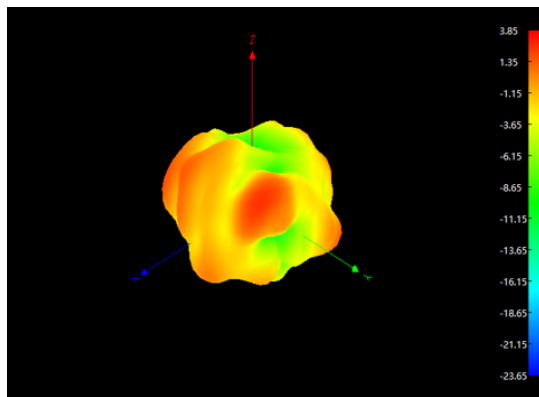
(5.15GHz WIFI) 低频点 3D 图及最大增益



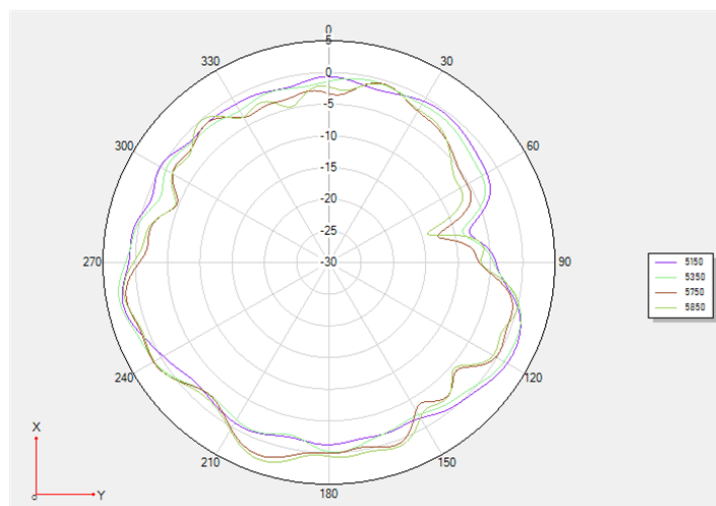
(5.35GHz WIFI) 中频点 3D 图及最大增益



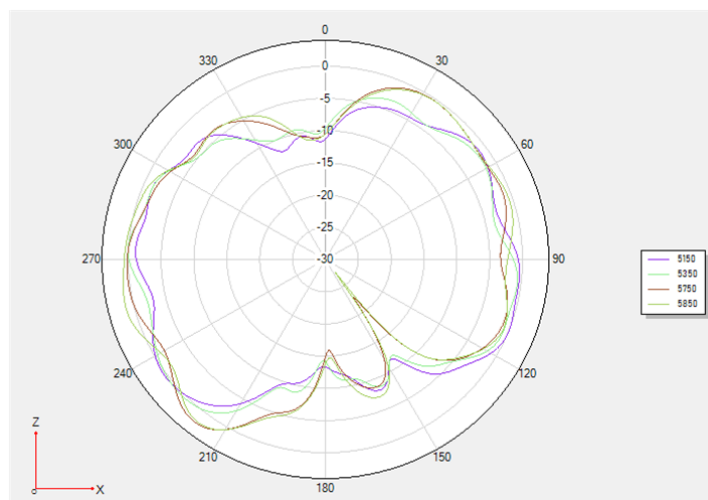
(5.75GHz WIFI) 高频点 3D 图及最大增益



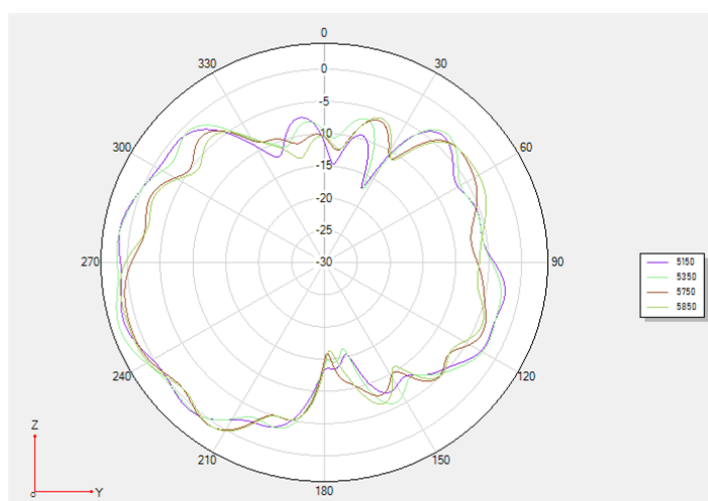
(5.85GHz WIFI) 高频点 3D 图及最大增益



5.15-5.85GHz XOY(H Face) Gain Icon



5.15-5.85GHz XOZ(E1 Face) Gain Icon



5.15-5.85GHz YOZ(E2 Face) Gain Icon

4.3. OTA test

5G OTA 测试					
		11A-54M			
		测试标准	CH36	CH100	CH149
ANT1	TRP	≥ 17	18.2	17.9	17.8
	TIS	≤ -70	-73.1	-73.2	-73.3

5. Product Drawing

保存目录

版本变更内容改前改后更改日期

A初版发行2025-3-26

ROHS

The diagram illustrates the antenna assembly with the following details:

- Dimensions:**
 - Overall length: 52 ± 3 mm
 - Mounting hole diameter: $\varnothing 23.00 \pm 0.2$ mm
 - Mounting hole depth: 11.00 ± 0.2 mm
 - Flange thickness: 1.00 ± 0.1 mm
 - Base thickness: 3.0 (双面胶厚度) mm
- Components and Labels:**
 - 01: Mounting hole
 - 02: 5G蓝色线
 - 03: End of the antenna wire
 - 04: SMA connector
 - 05: SMA connector
 - 06: SMA connector
 - 07: SMA connector
 - 08: SMA connector
 - 09: SMA connector
 - 10: SMA connector
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 - 12: SMA connector
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 - 97: SMA connector
 - 98: SMA connector
 - 99: SMA connector
 - 100: SMA connector

Specification:
Frequency Range: 5150~5850MHz

1. 包装数量: 100PCS/PE Bag;
2. 须贴上Ipc=标签至PE袋中间位置;
(注: 如果标签客户有要求则按客户要求贴;
否则按迅达标签贴)。

04	3M双面胶	1	EVA	
03	端子	1	MF, Gold	
02	线材	1	RF137, Blue, 末端IPEX	
01	PCB线路板	1	FR4 黑油	
序号	零件名称	规格 (单位: mm)	用量	材料
TOTAL PARTS SPECIFIED				
PART NO.	零件编号	CUSTOMER	客户	数量
PART NAME	成品图	UNIC-B052P3D-49Q	UNIC	1
PROD. NO.	生产名称	UNIC138E8	UNIC	1
PROD. DATE	生产日期	2025-3-26	UNIC	1
PROD. TIME	生产时间	1:1	UNIC	1
PROD. SCALE	生产比例	1:1	UNIC	1
PROD. MATERIAL	生产材料	FR4	UNIC	1
PROD. SURFACE	生产表面	FR4	UNIC	1
PROD. UNIT	生产单位	UNIC	UNIC	1
PROD. DATE	生产日期	2025-3-26	UNIC	1
PROD. TIME	生产时间	1:1	UNIC	1
PROD. SCALE	生产比例	1:1	UNIC	1
PROD. MATERIAL	生产材料	FR4	UNIC	1
PROD. SURFACE	生产表面	FR4	UNIC	1
PROD. UNIT	生产单位	UNIC	UNIC	1
PROD. DATE	生产日期	2025-3-26	UNIC	1
PROD. TIME	生产时间	1:1	UNIC	1
PROD. SCALE	生产比例	1:1	UNIC	1
PROD. MATERIAL	生产材料	FR4	UNIC	1
PROD. SURFACE	生产表面	FR4	UNIC	1

6. Optional Cable Data Sheet

产品规格 Product Type		RF137L-F 低损		
结构图 Structure Drawing				
结构特性 Structure Characteristics				
结构 Structure	项目 Item	标准值 Standard Value		
内导体 Inner Conductor	材质 Material	镀锡铜线 TC Wire		
	结构 Construction(mm)	7/0.102		
	标称外径 Nom.Dia(mm)	0.306±0.005		
绝缘层 Insulation	材质 Material	聚全氟乙丙烯 FEP		
	标称外径 Nom.Dia(mm)	0.90±0.03		
外导体 Outer Conductor	材质 Material	铜塑箔 Copper plastic foil		
	标称外径 Nom.Dia(mm)	0.92±0.05		
外导体 Outer Conductor	材质 Material	镀锡铜线 TC Wire 16*5*0.05		
	标称外径 Nom.Dia(mm)	1.12±0.05		
	编织覆盖率 Coverage Ratio(%)	90±5		
护套 Jacket	材质 Material	聚全氟乙丙烯 FEP		
	标称外径 Nom.Dia(mm)	1.37±0.05		
电气性能 Electrical Characteristics				
项目 Item	标准值 Standard Value	项目 Item	频率 Frequency	标准值 Standard Value
阻抗 Impedanc (Ω)	50±2	衰减 Attenuation@20℃ (dB/m)	1GHz	1.70
电容 Capacitance(pF/m)	98		2GHz	2.25
速率 Velocity(%)	70		3GHz	2.80
驻波比 VSWR	≤1.30@DC-8GHz		4GHz	3.20
最大工作电压 Max.Operating Voltage(V)	1000		5GHz	3.75
最大工作频率 Max.Operating Frequency(GHz)	6		6GHz	4.20
		8GHz	4.60	
可靠性 Dependability				
最小弯曲半径(单次)Min.Bending Radius/Single	mm	5		
最小弯曲半径(重复) Min.Bending Radius/Repeated	mm	20		
工作温度范围 Operating Temperature	℃	-55-+200		
包装 Packing				
包装方式 Packing Mode	纸盘 Papery Reel			
包装长度 The Length of Each Reel(m)	800			
每盘段数 The Joints of Each Reel	≤4			
最小段长 Min. Segment Length(m)	≥20			
使用提示 Trips for Use				
存储环境 Storage Environment	温度：30℃以下，湿度：20-65%			
最佳保存周期 The Best Save Cycle	2 个月，2 个月以上上锡效果变差，但电性能不受影响，夏季高温高湿环境开剥后需尽快流转			
加工温度 Processing Temperature	可短时承受 260℃的高温，300℃以上易发生分解，400℃以上发生显著的热分解			
铁氟龙收缩 Teflon Shrink	材料的固有属性，绝缘 0.2mm 以下，护套 0.3mm 以下			
护套窜动 Jacket Taaverse	加工长度（护套残留长度）低于 5CM 时易发生			

7. IPEX Specification Sheet

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
Product specification	1.37mm RF connector	R-164 版本: B0			
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	核准 App.	审核 Chk.	制作 Pre.	Issued By: 杨 琴
By	陆奇卿	李慧	杨 琴	
Date	2020.03.30	2020.03.30	2020.03.30	

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
Product specification	1.37mm RF connector	R-164 版本: B0			
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***** Revised history *****

[illegible]

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
Product specification	1.37mm RF connector	R-164 版本: B0			
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1. 范围 **Scope:**

本产品规范规定了同轴电缆用 1.37 连接器的测试条件和性能

This Product Specification defines the test conditions and the performances of the 1.37 Connector

2. 产品名称及产品型号 **Product Name and Parts No**

2.1 产品名称 **Product Name:1.37 Plug**

2.2 产品型号 **Parts No:958-C137-**-W-*u-A0**

连接器的结构、材料和表面覆盖在每张图纸上

Construction, material and finish of the connector are covered as each drawing

3. 要求 **Requirements**

额定电压	AC 60V rms
特性阻抗	50Ω
频率范围	DC~8GHz
驻波比	0.1~3GHz 1.3 以下，3-8GHz 1.5 以下
使用温度	233K~363K (-40℃~90℃)
存储条件	温度：248K~333K(-25℃~+60℃) 湿度：85% 以下(未凝结)

Rated voltage	AC 60V rms
Nominal characteristic impedance	50Ω
Frequency	DC~8GHz
VSWR	1.3Max at 0.1~3GHz，1.5Max at 3-8GHz
Service Temperature	233K~363K (-40℃~90℃)
Storage condition	Temperature：248K~333K(-25℃~+60℃) Humidity：85% MAX.(No condensation)

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
Product specification	1.37mm RF connector	R-164 版本: B0			
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4.测试和性能 Test and Performance

试验条件 Test Condition

除非另有说明，所有测试和测量均应按照 MIL-STD-202G 在下列条件下进行。

温度：288K~308K(15℃~35℃)

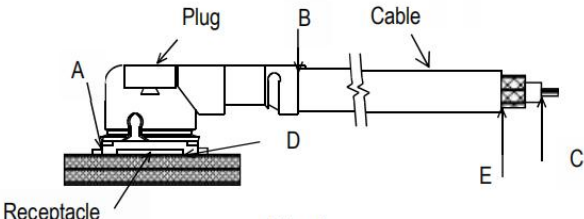
湿度：45~75%R.H.

Unless otherwise specified, all tests and measurements shall be performed under the following conditions in accordance with MIL-STD-202G.

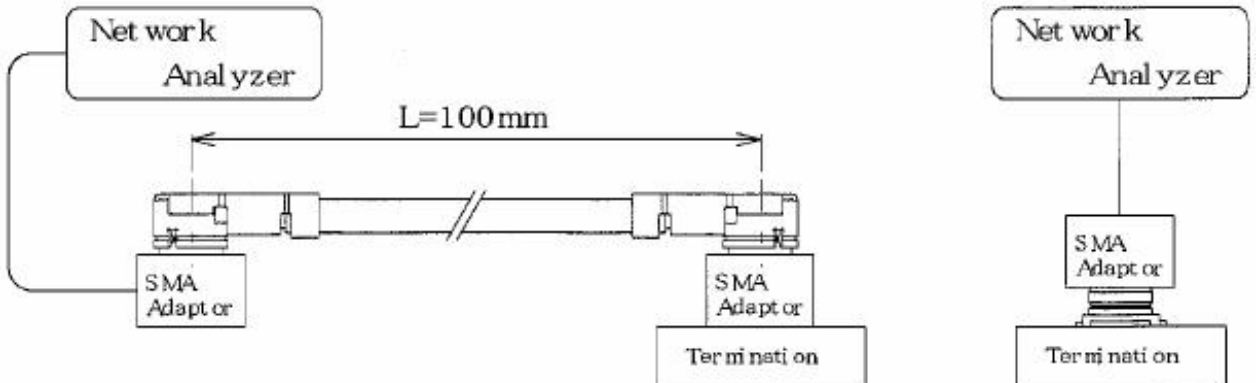
Temperature：288K~308K(15℃~35℃)

Humidity：45~75%R.H.

4.1 电气的性能 Electrical Performance

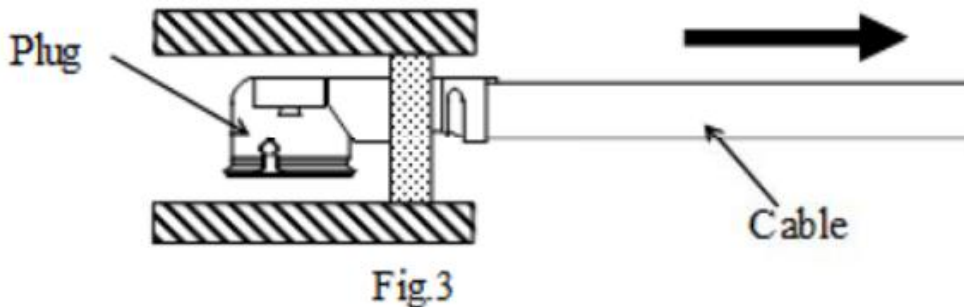
NO	项目/Items	试验条件/Test Conditions	规格/Specifications
1	接触阻抗	公母端连接器配合后使用 20mV 开路电压，以最大 10mA 电流进行测试。 中心导体 (A-E 之间的电气阻抗) - (B-E 之间的电气阻抗) 外部导体 (C-D 之间的电气阻抗) - (B-D 之间的电气阻抗)	中心导体 初期:20 mΩ 以下 试验后:25 mΩ 以下 外部导体 初期:10 mΩ 以下 试验后:15 mΩ 以下
	Contact Resistance	Solder the receptacle connector to the test board and mate the plug connector together, then measure the contact resistance as shown in Fig.1 by the four terminal method.Apply the low level condition in accordance with MIL-STD-202, Method 307. Open circuit voltage: 20mV Max Circuit current: 10mA Max. (DC or AC1kHz) Contact resistance of inner contact <resistance of A-E>-<resistance of B-E> Contact resistance of ground contact <resistance of C-D>-<resistance of B-D>	Contact resistance of inner contact Initial: 20mΩ Max After testing: 25mΩ Max Contact resistance of ground contact Initial: 10mΩ Max After testing: 15mΩ Max
 Fig. 1			

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Product specification	1.37mm RF connector	R-164 版本: B0			
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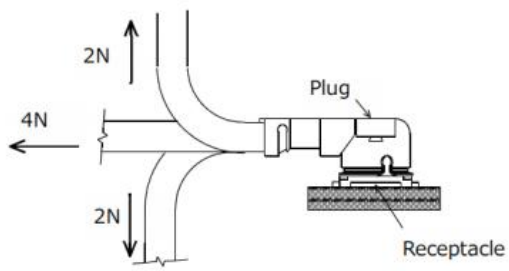
NO	项目/Items	试验条件/Test Conditions	规格/Specifications
2	绝缘阻抗	公母端连接器配合后，测试中心导体与外部导体之间的绝缘阻抗。使用 DC100V，保持 1 分钟，参考测试标准：MIL-STD-202 方法 302.	初期:500 mΩ 以上 试验后:100 mΩ 以上
	Insulation Resistance	Mate the plug and receptacle connector together, then apply DC100V between the Inner contact and the ground contact In accordance with MIL-STD-202,Method 302.	Initial: 500mΩ Min After testing: 100mΩ Min
3	耐电压	公母端连接器配合后，使用 AC 200V 对中心导体与外部导体进行耐压测试 1 分钟。参考测试标准：MIL-STD-202 Method 301	无沿面放电、空中放电、绝缘破坏等异常
	Dielectric Strength	Mate the receptacle and plug connector together, then apply AC 200 Vrms between the inner contact and the ground contact for a minute in accordance with MIL-STD-202,Method 301.	No creeping discharge, flashover, nor insulator Breakdown shall occur.
4	驻波比	如图 2 所示，通以网络分析仪测试驻波比。	Plug
	VSWR	Measure the VSWR as shown in Fig.2 by the network analyzer.	0.1~3GHZ 1.3Max 3~8GHZ 1.5Max
			

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Product specification	1.37mm RF connector	R-164 版本: B0			
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4.2 机械的性能 Mechanical Performance

NO	项目/Items	试验条件/Test Conditions	规格/Specifications
1	拔去力	拆下插座连接器(焊接在测试板上)，用插拔力试验机以每分钟 25mm±3mm 的速度插拔母端连接器	综合拔去力 初次: 7N MIN 30 次后: 3N MIN 中心导体 初次: 0.15N min 30 次后: 0.10N min
	Unmating force	Unmate the receptacle connector (soldered to the test board) and plug at a speed 25±3mm/minutes along the mating by the push-on/pull-off machine.	Total unmating force Initial: 7N min .After 30 cycles: 3N min Unmating force of inner contact Initial: 0.15N min .After 30 cycles: 0.10N min
2	引张强度	用材料试验机以每分钟 25mm±3mm 的速度拉线材部分，测定引张强度。如图 3 所示	25N 以上
	Crimp strength	Pull the cable as shown in Fig.3 at a speed 25±3mm/minutes by tensile strength machine.	25N Min
	 Fig 3		

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
Product specification	1.37mm RF connector	R-164 版本: B0			
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NO	项目/Items	试验条件/Test Conditions	规格/Specifications
3	耐久力	母端连接器焊在板上，用插拔力实验机以每分钟 25mm±3mm 的速度插拔 30 次。	中心导体 初期:20 mΩ 以下 试验后:25 mΩ 以下 外部导体 初期:10 mΩ 以下 试验后:15 mΩ 以下
	Durability (Repeated Mating/ Unmating)	Mate and umate the receptacle connector (soldered to the test board) and plug 30 cycles at a speed 25±3mm/minutes along the mating by the push-on/pull-off machine.	Contact resistance of inner contact Initial: 20mΩ Max After testing: 25mΩ Max Contact resistance of ground contact Initial: 10mΩ Max After testing: 15mΩ Max
4	将线材施加于力后的产品接触阻抗	如图 4 制定方向施力，测试期间工作电流 100mA DC，检查瞬间电流中断。	外观无异常，瞬断小于 1μs 接触阻抗满足要求
	Contact resistance with force on the cable	Apply force on the cable as shown in Fig.4. During the testing, run 100mA DC to check electrical discontinuity.	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Electrical discontinuity No electrical discontinuity grater than 1 μs shall occur. Contact impedance meets the requirement
 Fig. 4			

文件名称 System Name:	产品品名 Description:	文件编号 Document No.:			
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NO	项目/Items	试验条件/Test Conditions	规格/Specifications
5	振动	公母端连接器配合固定在震动台上, 15 分钟内振动频率为 10-100-10Hz, 半振幅, 加速度峰值 1.5 振 mm 或 59m / s2(6g)方向, 三个相互垂直的方向进行震动, 各方向振动 5 次 (共 75 分钟), 测试过程中加 DC 100mA 直流电。	外观无异常, 瞬断小于 1μs 接触阻抗满足要求
	Vibration Sinusoidal Low Frequency	Apply the following vibration to the mating connector.During the testing, run 100mA DC to check electrical discontinuity. Frequency 10Hz→100Hz→10Hz/approx 15 minutes. Half amplitude, Peak value of acceleration 1.5mm or 59m/s2 (6G) Directions, cycle 3 mutually perpendicular direction 5 cycles (approx 75min) about each direction	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Electrical discontinuity No electrical discontinuity grater than 1 μs shall occur. Contact impedance meets the requirement
6	冲击	公母端连接器配合固定在冲击实验机上, 以 735m/s2 (75g) 的加速、半正弦冲击波的波形和 11ms 的冲击时间进行测试。周期 6 相互垂直的方向 3 周期。测试过程中加载 100mA 直流电。参考测试标准: MIL-STD-202 Method 213 条件 B	外观无异常, 瞬断小于 1μs 接触阻抗满足要求
	shock	Apply the following vibration to the mating connector in accordance with MIL-STD-202,Method 213, Condition B. During the testing, run 100mA DC to check electrical discontinuity Peak value of acceleration: 735m/s2 (75G) Duration:11msec Wave Form:half sinusoidal Directions, cycle 6 mutually perpendicular direction 3 cycles about each direction	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Electrical discontinuity No electrical discontinuity grater than 1 μs shall occur. Contact impedance meets the requirement

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4.3 环境的性能 Environmental Performance

NO	项目/Items	试验条件/Test Conditions	规格/Specifications
1	热冲击	公母端配合后, 将样品放入试验箱内, 测试 5 循环。 一个循环条件如下: -40℃/30 分钟→(5-35)℃/5 分钟以下→90℃/30 分钟→(5-35)℃/5 分钟以下, 转换时间不超过 30 秒	外观无异常 接触阻抗满足要求 绝缘阻抗满足要求
	Thermal shock	Apply the following environment to the mating connector. Temperature,duration 233K(-40℃)/30 minutes→278~308K(5~35℃) /5 minutes Max.→363K(90℃) /30 minutes→278~308K(5~35℃) /5 minutes Max No.of cycles:5 cycles	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Contact impedance meets the requirement Insulation resistance meets the requirement
2	恒温恒湿	公母端配合后, 将样品放入试验箱内 温度: 40±2℃ 相对湿度: 90-95% 时间: 48 小时; 测试标准: MIL-STD-202, 方法 103,条件 B	外观无异常 接触阻抗满足要求 绝缘阻抗满足要求
	Humidity (Steady State)	Apply the following environment to the mating connector in accordance with MIL-STD-202, Method 103,Condition B. Temperature:33±2K(40±2℃) Humidity :90~95%RH Duration :96 hours	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Contact impedance meets the requirement Insulation resistance meets the requirement

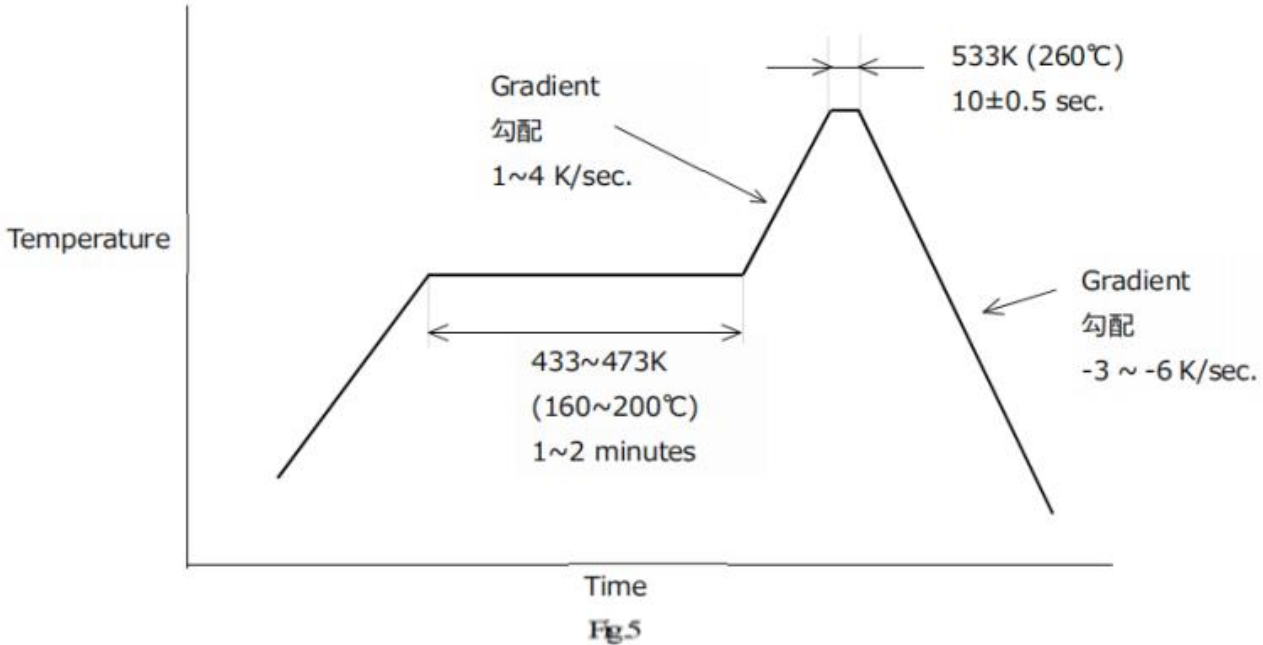
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NO	项目/Items	试验条件/Test Conditions	规格/Specifications
3	盐水喷雾	公母端配合后, 将样品放入试验箱内 温度: $35\pm 2^{\circ}\text{C}$ 盐水浓度: $5\pm 1\%$ 时间: 48 小时 测试标准: MIL-STD-202, 方法 101, 条件 B	外观无明显腐蚀
	Salt Water Spray	Apply the following environment to the mating connector in accordance with MIL-STD-202, Method 101, Condition B. Temperature: $308\pm 2\text{K}(35\pm 2^{\circ}\text{C})$ Salt water density by weight: $5\pm 1\%$ Duration: 48 hours	Appearance No abnormality adversely affecting the performance shall occur.
4	高温	公母端配合后, 将样品放入试验箱内 温度: $90\pm 2^{\circ}\text{C}$ 时间: 96 小时	外观无异常 接触阻抗满足要求
	High Temperature	Apply the following environment to the mating connector Temperature: $363\pm 2\text{K}(90\pm 2^{\circ}\text{C})$ Duration: 96 hours	Appearance Looseness between the parts, chipping, breakage or other abnormality shall not occur. Contact impedance meets the requirement

4.4 焊接的性能 Soldering

NO	项目/Items	试验条件/Test Conditions	规格/Specifications
1	可焊性	将端子沉入 $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 的焊液中 5 ± 0.5 秒. 测试标准: MIL-STD-202, 方法 208	焊锡表面浸渍超过 95%
	Solder ability	Immerse the solder pin of the connector in the solder bath at $518\pm 5(245\pm 5^{\circ}\text{C})$ for 5 ± 0.5 sec. MIL-STD-202, Method 208.	More than 95% of the dipped surface shall be evenly wet.

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NO	项目/Items	试验条件/Test Conditions	规格/Specifications
2	耐焊接热	将连接器焊接在 PCB 板上, 如图 5 所示加热 2 次循环	外观无明显变形
	Soldering heat resistance	Put on the receptacle connector to PCB, apply the heat 2 cycles as shown in Fig.5	Appearance No abnormality adversely affecting the performance shall occur.
 Temperature Time Fig.5 Gradient 勾配 1~4 K/sec. 433~473K (160~200°C) 1~2 minutes 533K (260°C) 10±0.5 sec. Gradient 勾配 -3 ~ -6 K/sec.			

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4.测试顺序和数量 Test Sequence and Sample Quantity															
Test Item 测试项目		Test Group 测试群组													
		A	B	C	D	E	F	G	H	J	K	L	M	N	P
(1)	Contact resistance 接触阻抗					1 3	1 3	1 3	1 3	1 4	1 4		1 3		
(2)	Insulation resistance 绝缘阻抗									2 5	2 5				
(3)	Dielectric strength 耐电压	1													
(4)	VSWR 驻波比		1												
(5)	Un-mating force 拔去力			1											
(6)	Crimp strength 引张强度				1										
(7)	Durability 耐久力					2									
(8)	Contact resistance with force on the cable 将线材施加于力后的产品接触阻抗						2								
(9)	Vibration 振动							2							
(10)	Shock 冲击								2						
(11)	Thermal shock 热冲击									3					
(12)	Humidity (Steady State) 恒温恒湿										3				
(13)	Salt waterspray 盐水喷雾											1			
(14)	High temperature 高温												2		
(15)	Solder ability 可焊性													1	
(16)	Soldering heat resistance 耐焊接热														1
Sample pcs 样品数量		10	5	10	10	10	10	10	10	10	10	10	10	-	-