

SPECIFICATION

SHEET FOR APPROVAL

	CUSTOMER(客户名称)	GSD	
	CS P/N(客户机种)		
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2400-2500MHz 5150-5850 MHz	
	GSD NO.(物料编号)	WC0D	
	DATE(日期)	2016-06-25	

CUSTOMER	
CHECKE	APPROVAL

DESIGN	CHECK	APPROVAL
	zou yilin	Zhao feng

惠州高盛达科技有限公司
HUIZHOU GAOSHENGDA TECHNOLOGY CO.,LTD

ANTENNA SPECIFICATION

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1. General Description

Dbi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board

2. Electrical Specifications

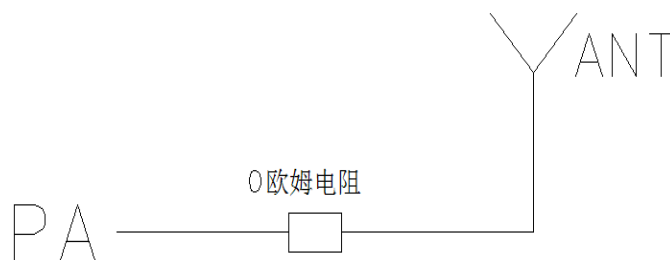
2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Frequency
WIFI 2.4G	2400-2500MHZ
WIFI 5G	5150-5850MHZ

2-1-2 Impedance

Nominal Impedance(including matching circuit) : **50 ohms**



2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available.

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2-1-4 VSWR And GAIN

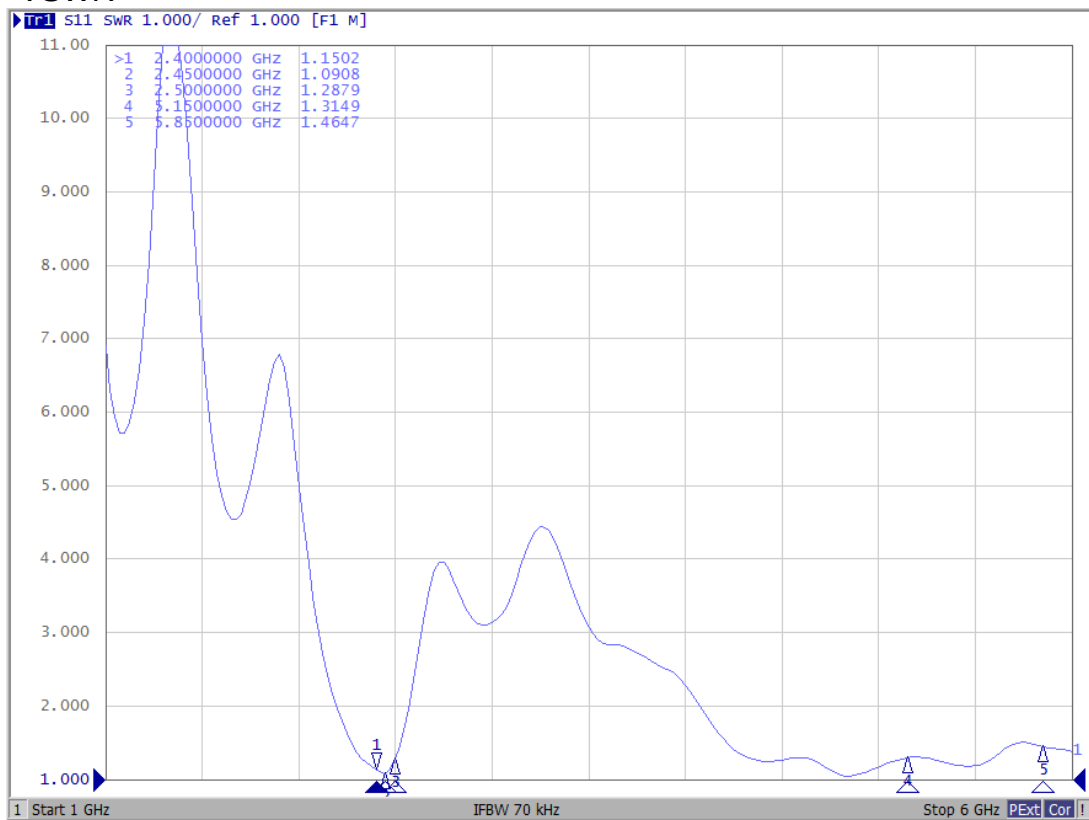
VSWR		GAIN	
Freq. Band	OPEN SPEC	Band Freq.	OPEN SPEC
2400MHz	≤ 2.0	2400MHz	$\geq -1.0\text{dBi}$
2500MHz	≤ 2.0	2500MHz	$\geq -1.0\text{dBi}$
5150MHz	≤ 2.0	5150MHz	$\geq -1.0\text{dBi}$
5850MHz	≤ 2.0	5850MHz	$\geq -1.0\text{dBi}$

※Measuring a 50 Ω test jig is connected to a network analyzer to measure the VSWR.

※※All test value is done in customer approval fixture.

2-2 Test Data

2-2-1 VSWR



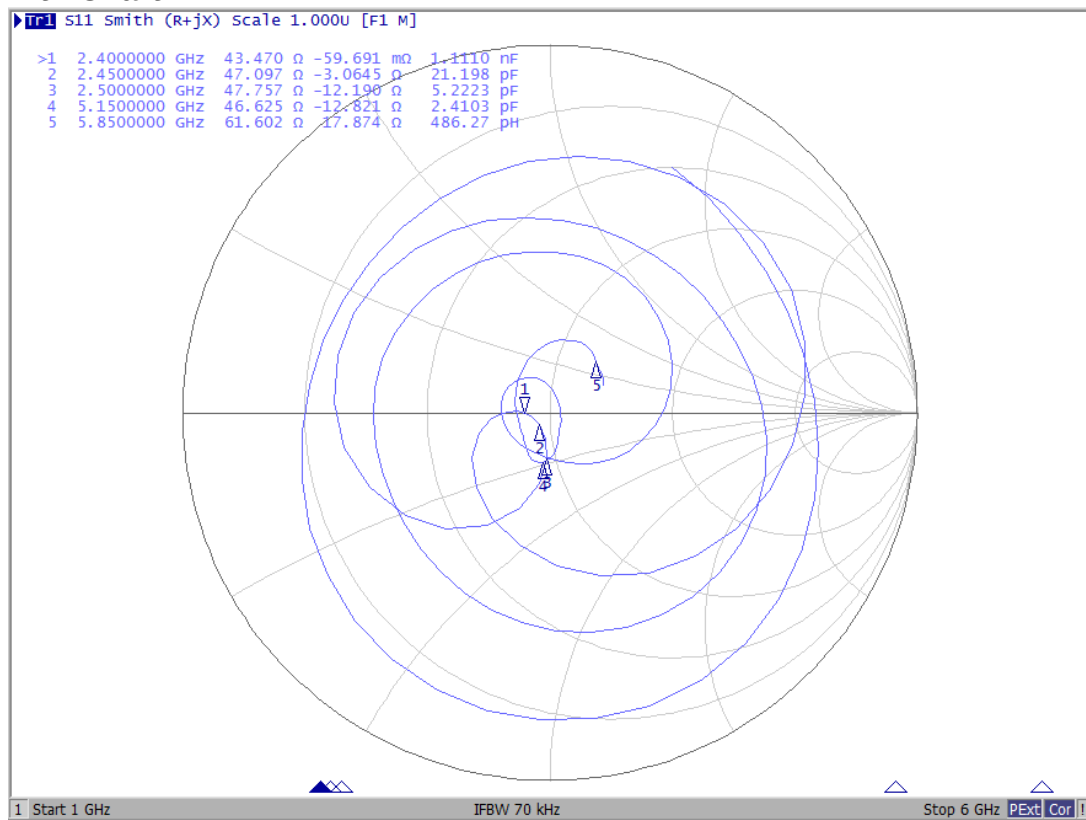
Model No:WC0D	File:
GSD NO:WC0D Antenna	Note: WIFI2.4G/5G
Sample No:yes	
Test Condition: Free Space	

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2-2-2 Smith Chart



2-2-3 GAIN Efficiency

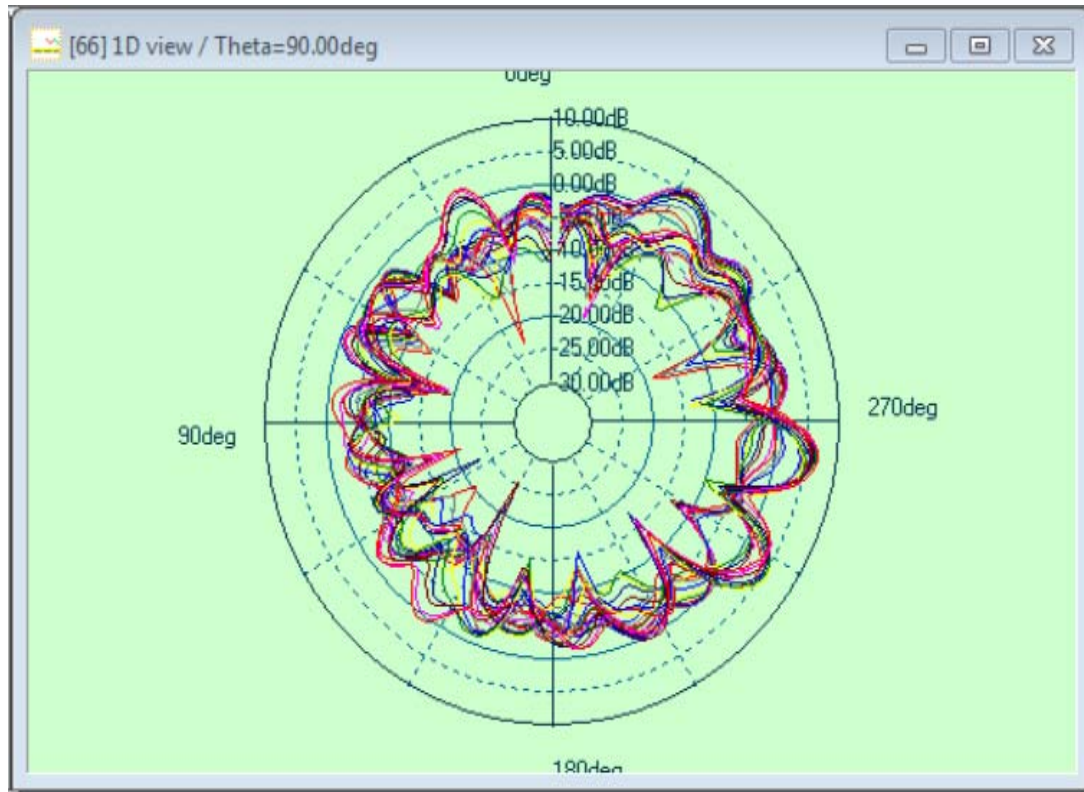
WIFI Gain:

	WIFI				
Frequency (MHz)	2400	2450	2500	5150	5850
Gain	1.42	1.72	1.65	2.34	2.57
Efficiency (dBi)	(44%)	(48%)	(45%)	(61%)	(66%)

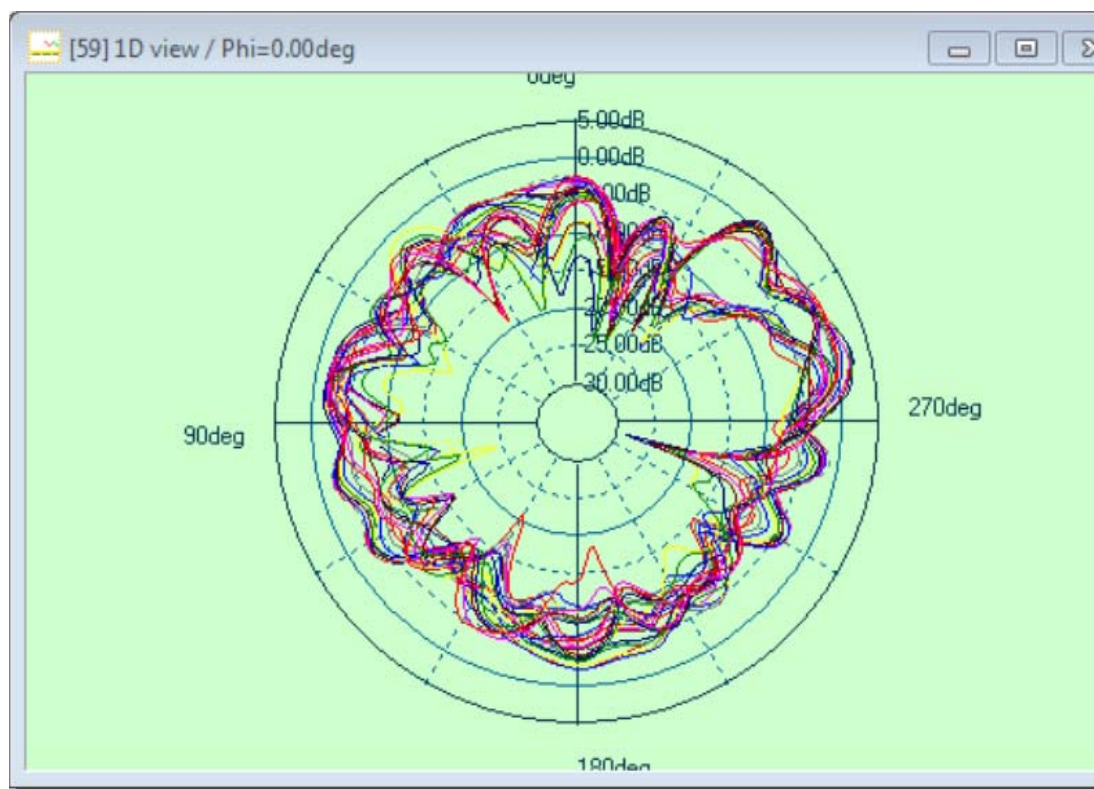
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2-2-4 The direction of figure

H

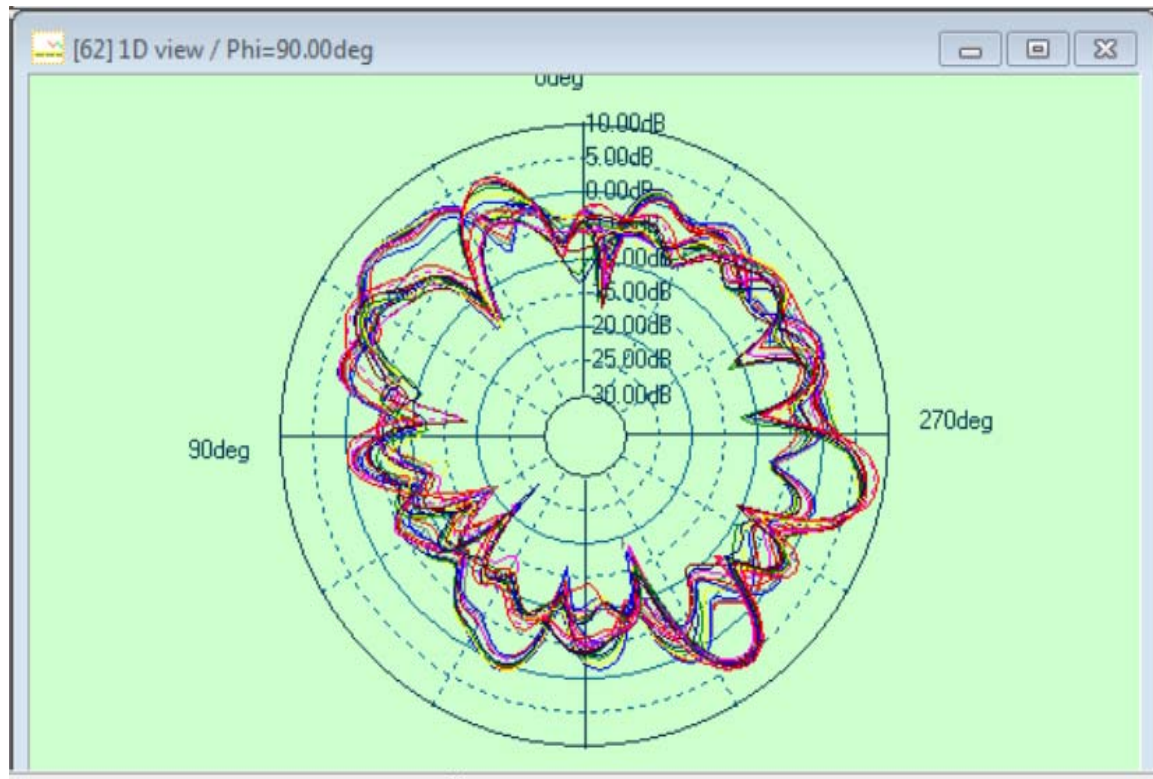


E1

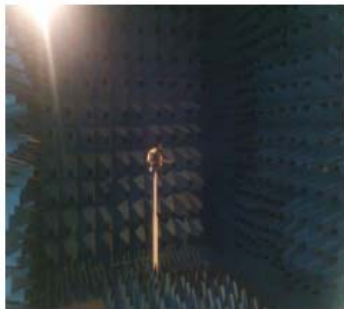


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E2



2-2-5 Testing equipment



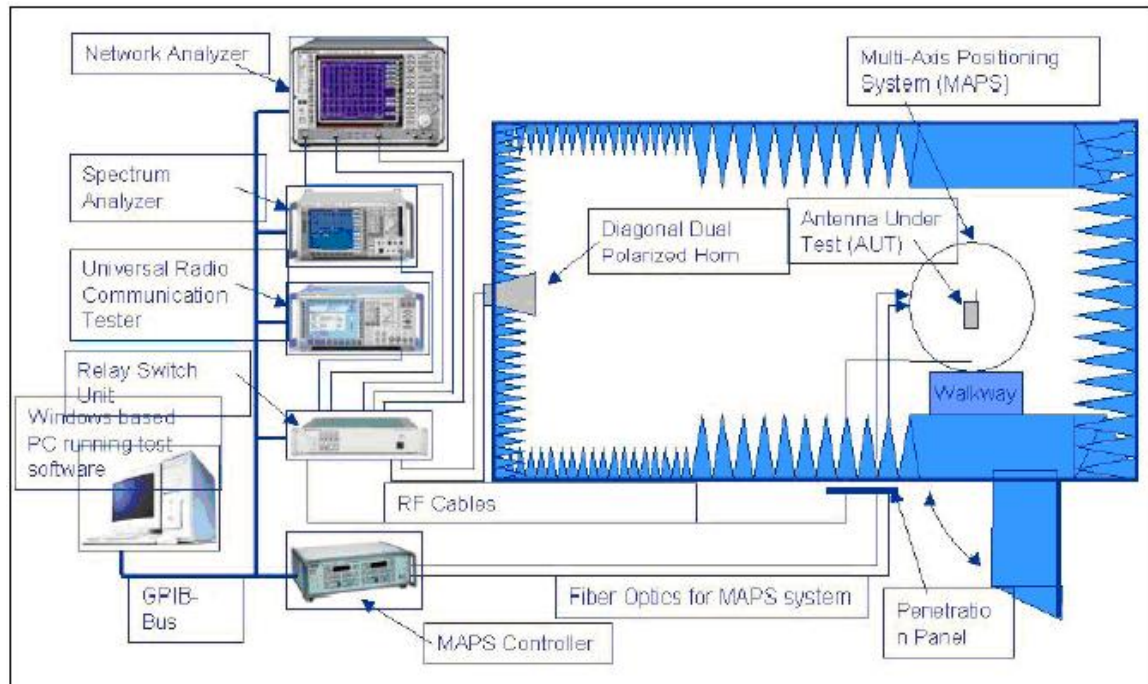
The company has the most advanced French Satimo SG24 OTA test system 1 set, ETS OTA standard test system 2 sets, Bluetest reverberation darkroom 1 set, MicroPross NFC test system 1 set, which can quickly and stably provide customers with accurate test reports, fully in line with CITA standards. support

GSM/CDMA/WCDMA/TD/LTE/WIFI/BT/GPS/MIMO active passive test and so on various formats.



The MicroPross NFC system can meet the test requirements of each operator, perform fast performance tests on NFC devices, and output official certification test reports

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3. Mechanical Specification

3-1 Mechanical Configuration

3-1-1 Mechanical Configuration(WIFI2.4G/5G)

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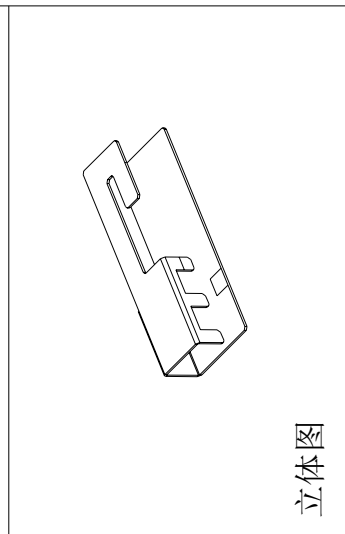
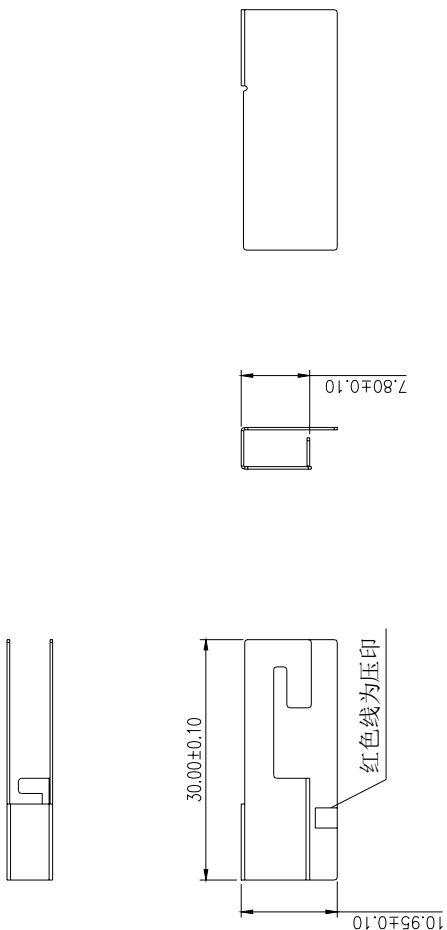
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版本	说明	审核	日期	批准	日期

展开图

粉红色线为折弯线



立体图

环保要求:

MATER	RoHS (PPM)		未定公差	制图	日期 2016-06-01	单位 mm	版本 A1	比例 1:1	物料编号
	Cd	≤1000							
Pb	≤1000	5-10	±0.10	射频					
Hg	≤1000	10-35	±0.12						1/1
Cr6+	≤1000	35-50	±0.15	审核					
PBB	≤1000	50-100	±0.20						WCOD (MM)
PBDF	≤1000	100-035	±0.20	批准					ZTX-QR-RD-029

备注:

1. 角度尺寸模具设计时依图纸尺寸作参照, 样品及量产实配即可;
2. 打“*”为严格控制尺寸 (TQC必测等级A) ;
3. 字母说明 (采用宋体, 要求字迹清晰, 弹片无变形) ;
4. 产品不能有油污、毛刺、利边、缺料、变形、压印过深等不良;
5. 需通过48小时盐雾测试;
6. 包装时需用吸塑盒摆放整齐, 运输过程中产品不能挤压碰撞等;
7. 未经过ZTVX公司确认, 材料不能随意更改;

3-1-2 Mechanical Configuration(天线组件)

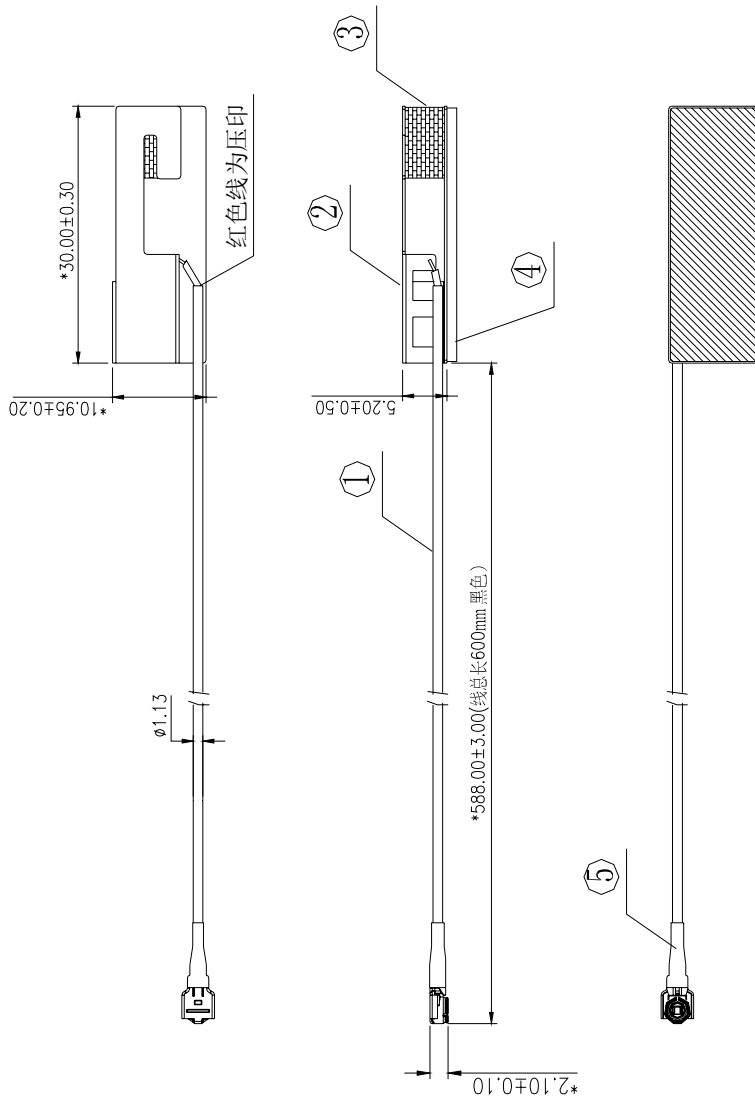
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材质说明:

注: 带*号尺寸为CPK检测尺寸

序号	结构说明	材质	工 艺
①	RF同轴线	PEP (F46) 一代高仿端子	
②	WIFI弹片	SUS304 T=0.30mm	镀镍
③	支撑泡棉	防火EVA 3M 9495	通过UL-94
④	固定泡棉胶	泡棉胶 3M RP45	通过UL-746C
⑤	护套	黑色热缩套管	

环保要求:	MATTER		RoHS (PPM)		中天迅通信技术有限公司				
	Cd	≤100	5 UND	±0.08	制图	2016.0624	邓靖东	日期:	2016.0624
	Pb	≤1000	5-10	±0.10	射频			材料	SS304 140, 30m (镀镍)
	Hg	≤1000	10-35	±0.12				mm	基板 A1
	Cr+6	≤1000	35-50	±0.15	审核			日期:	日期
	PBB	≤1000	50-100	±0.18		/	/	工艺	产品名
	PBDE	≤1000	100 0/E	±0.20	批准			测试	WCD0-60 (WIFI组件)
								日期:	测试编号
									ZTC-QR-RD-018
									