

Document number

# Specification For Approval

客户名称:  
Customer:

ShenZhen XinYuan Electronic Technology

供应商名称:  
Customer:

Dongguan Honghui Electronics Co.

Customer Code:

YLH100180

Description:

2DB-915 Black

models

Production: Zhou

Structure: Zhou

dates: 2024.07.25

## I. Product Pictures



## II. Product Parameters

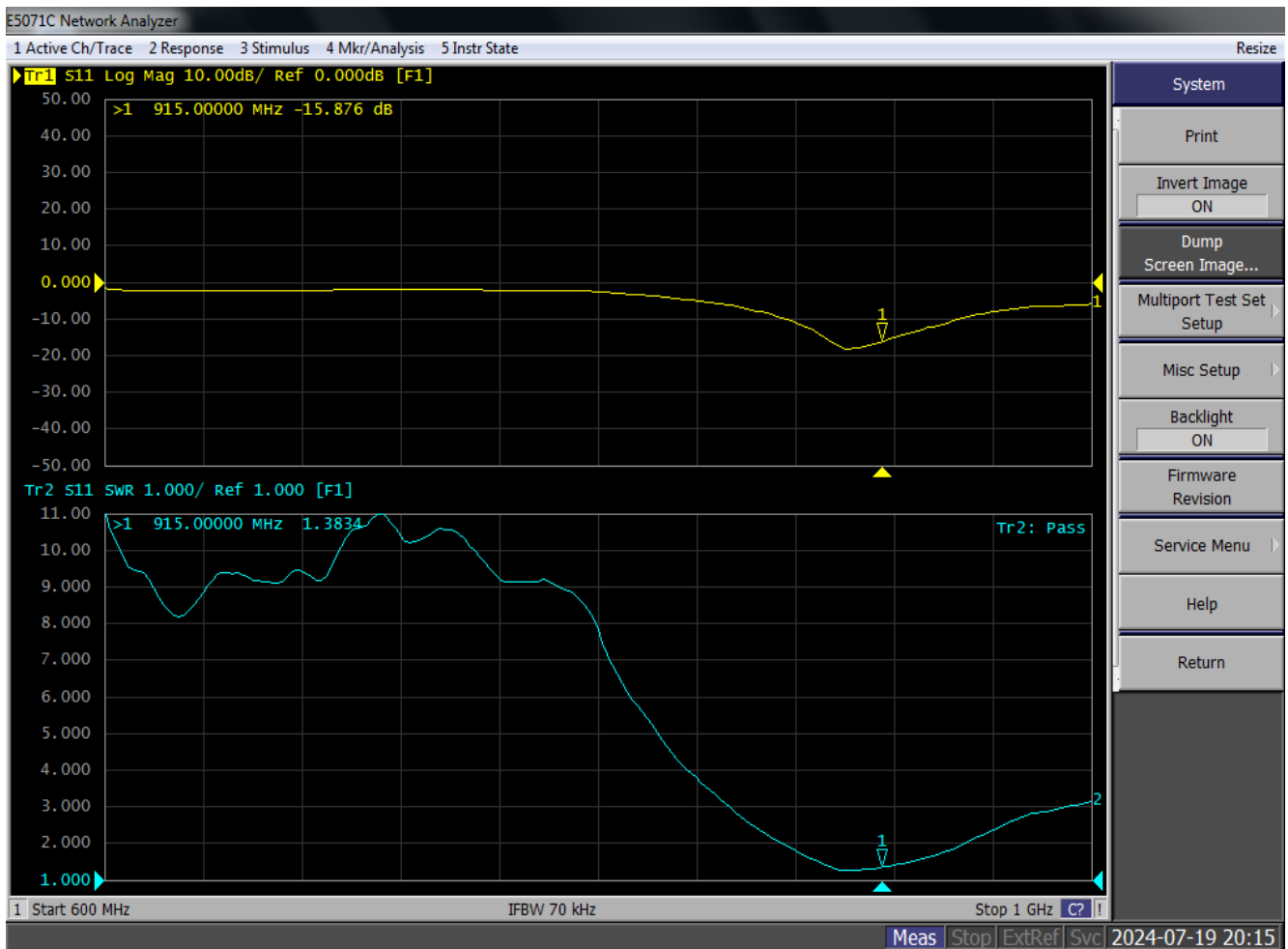
Product Test Parameters			
产品名称(Name)	2DB-915 Black Antenna	产品型号(Model Type)	
电性能指标 (Electrical Specifications)			
频率范围 (Frequency Range)	915Mhz	极化方式 (Polarization)	perpendicular
输入阻抗(Impedance)	50 $\Omega$	辐射方向	all directions
驻波比 (VSWR)	$\leq 2$	功率容量(Power)	50W
增益(Gain)	2dBi	带宽 (Bandwidth)	100MHz

## 机械指标 (Mechanical Specifications)

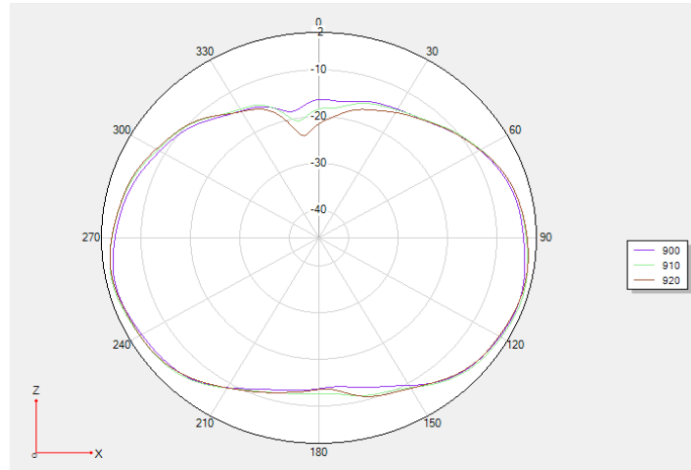
尺寸 (Dimensions)	88±2MM	天线颜色(Chassis Color)	black
连接器型号 (Connector)	SMA铜头母针	引线长度(Cable Length)	
天线材料 (Chassis Material)	ABS		
工作温度 (Working Temperature)	-40°C ±85°C	存放温度 (Limit Temperature)	-40°C ±85°C

### III. S11 ( VSWR 、 Return loss 、 Smith) Data 2D-3D Orientation Chart

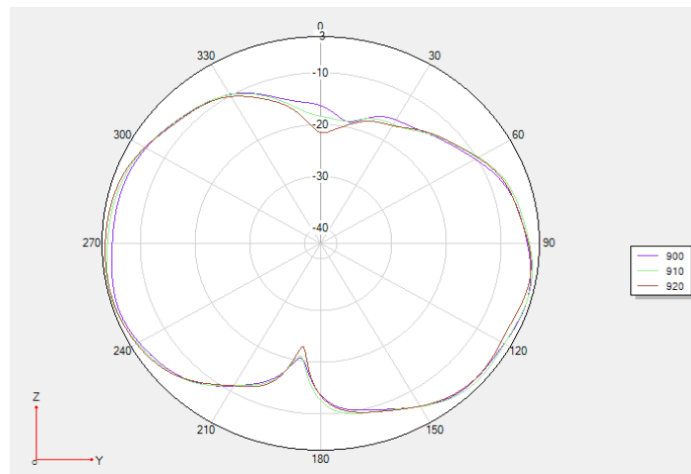
#### III-I. Network Analyzer Report



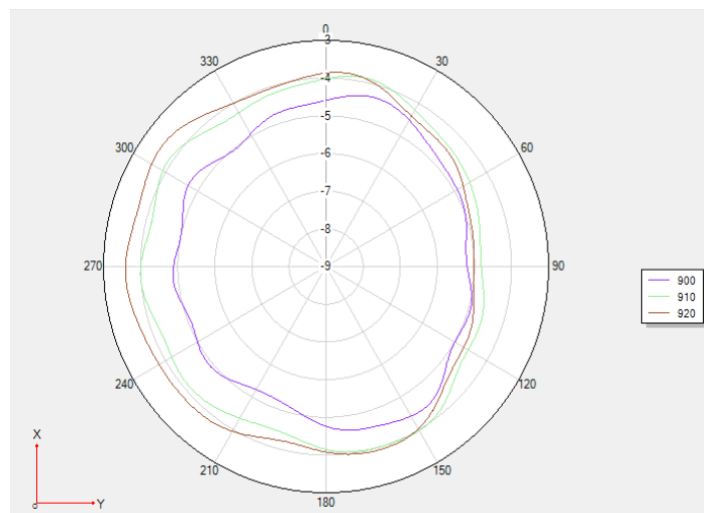
### III-II. 2D-3D Direction Map



0°C



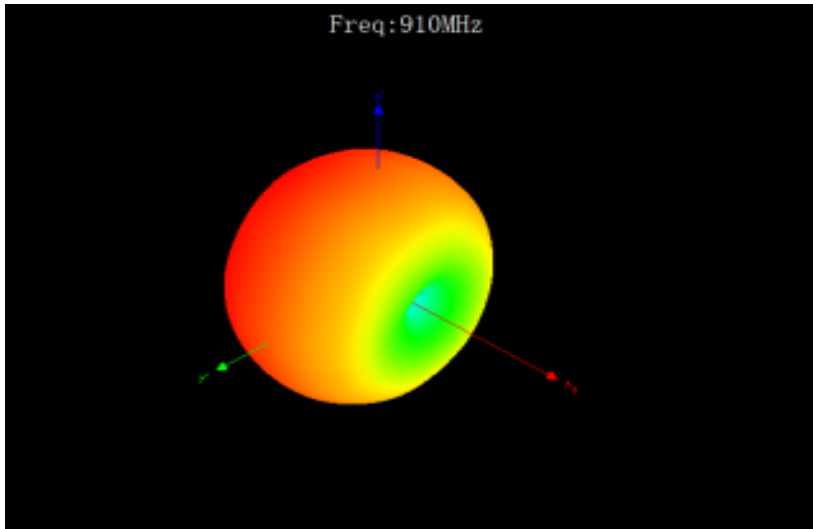
90°C



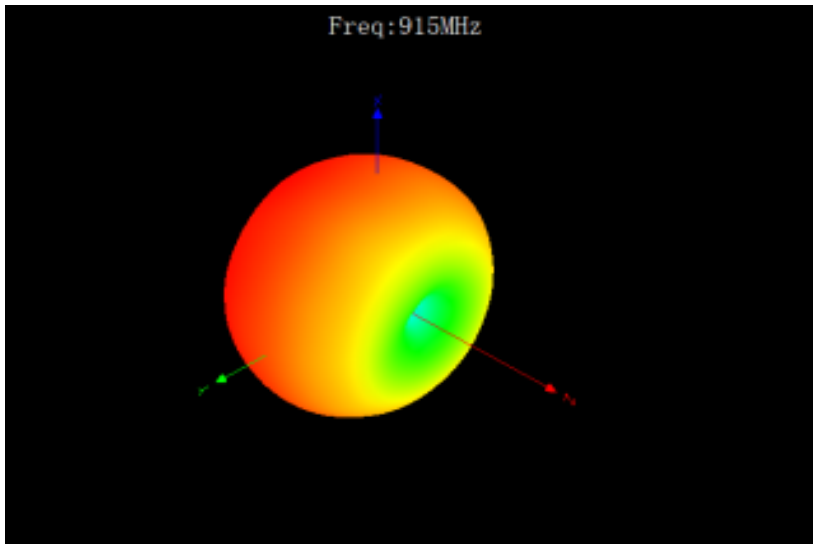
90°C

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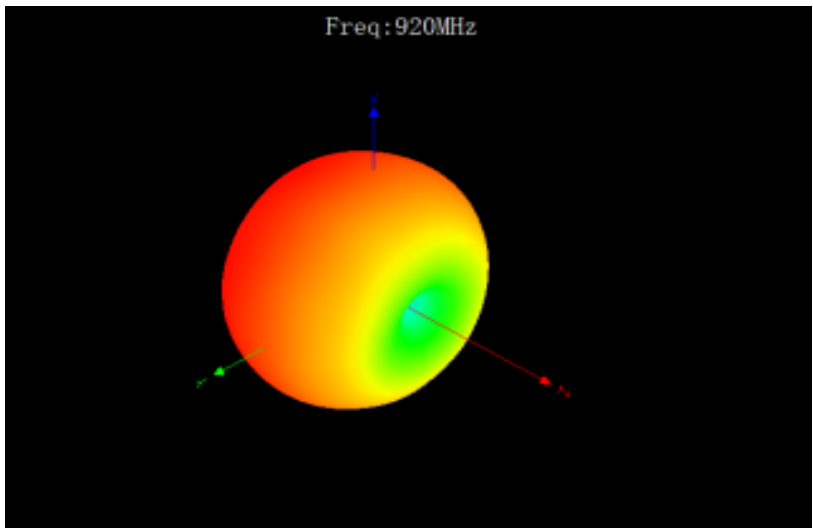
III-II. 2D-3D Direction Map



900MHz

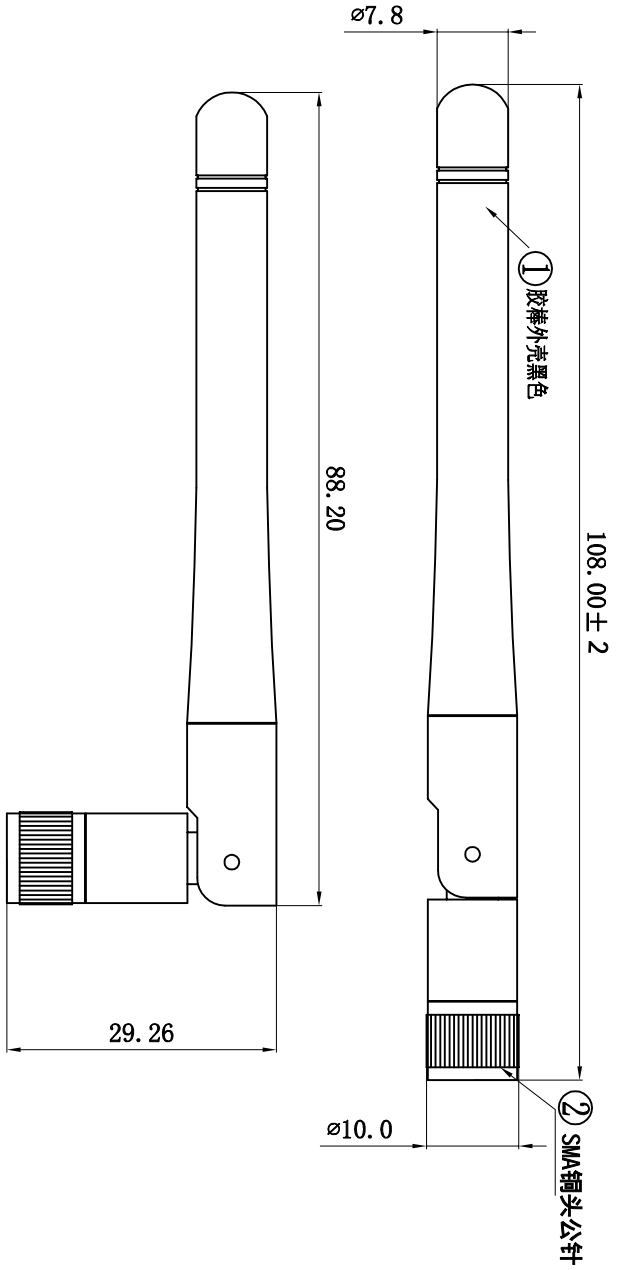


915MHz

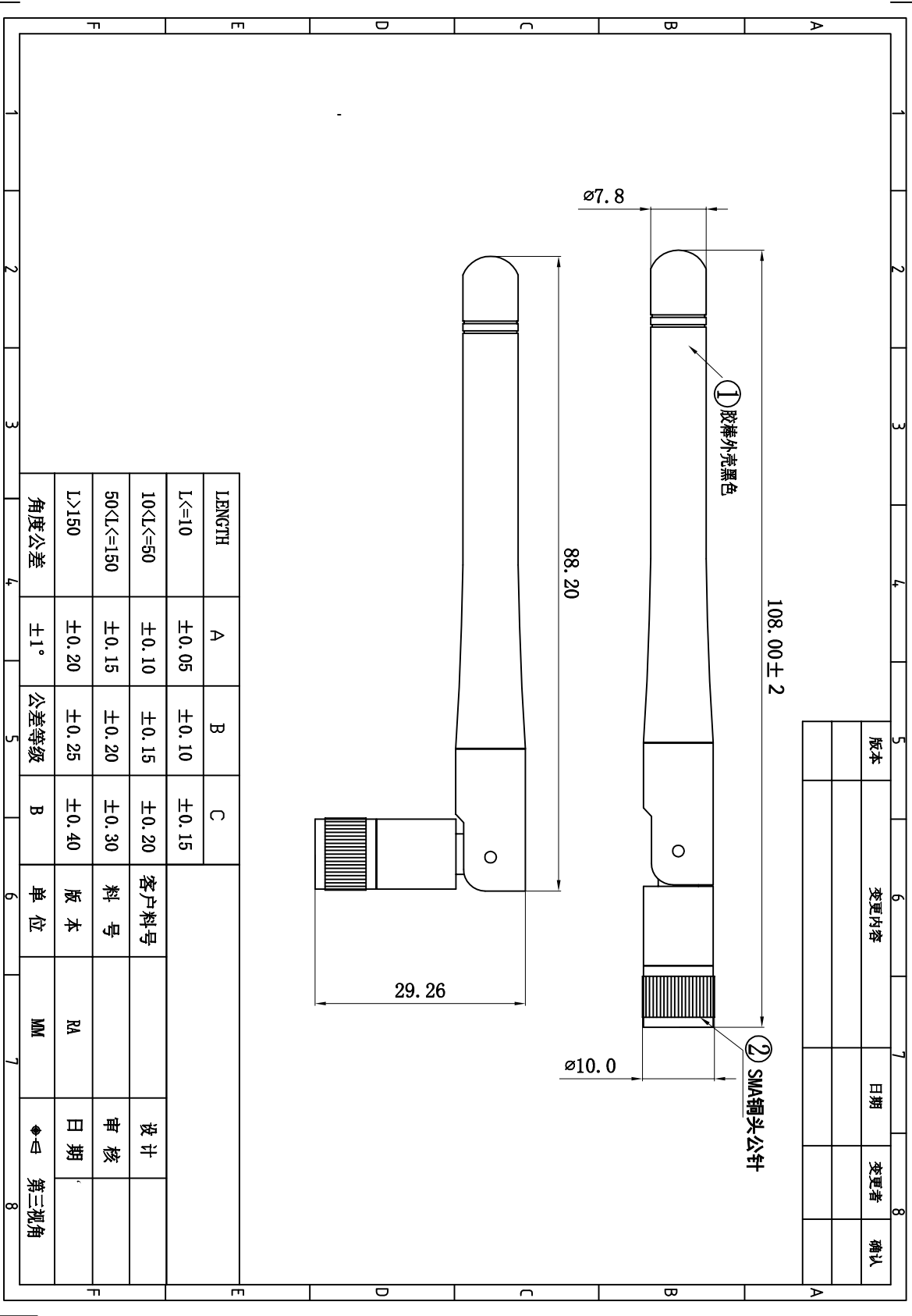


920MHz

版本	变更内容	日期	变更者	确认



LENGTH	A	B	C	客户料号	设计
L ≤ 10	±0.05	±0.10	±0.15		审核
10 < L ≤ 50	±0.10	±0.15	±0.20	料号	日期
50 < L ≤ 150	±0.15	±0.20	±0.30	版本	
L > 150	±0.20	±0.25	±0.40	版本	
角度公差	±1°	公差等级	B	单位	第三视角



Storage environment	Test temperature, humidity, and barometric pressure without specifying as follows: 1. Temperature $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ . 2. Relative humidity of 45%-85 3. air pressure 86kpa-106kpa	Normal
High and low temperature test	5 cycles between $70^{\circ}\text{C}$ and $40^{\circ}\text{C}$ , followed by 1-2 hours under normal conditions to check the quality of the appearance.	Normal
Resistant to constant humidity and heat test	Relative humidity $95\pm 3\%$ , test temperature: $40^{\circ}\text{C}$ . Continuously 2H after the action, the test piece is taken out within 5min to determine the electrical properties, the test piece in the normal conditions of 1-2H, check the appearance of quality	Normal
Vibration test	Frequency range 10-55Hz, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle times: 30 times	Normal
Drop test	3 free falls on mutually perpendicular axes at a height of 1M.	Normal