

DA.00207.LM.2AS

Antenna Specification

1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

1. Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
915MHZ	915

2-2. Impedance

50 ohm nominal

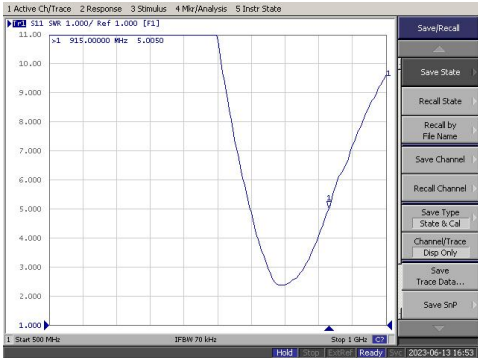
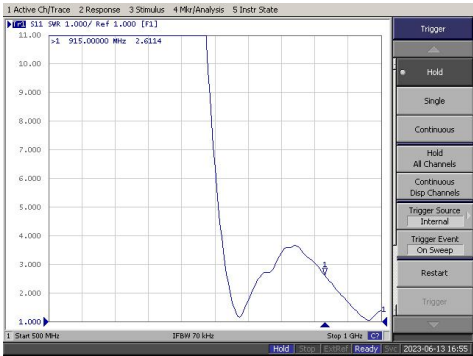
2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

Frequency Band(MHz)	915	915	915
2-3-2. Typical Value:	5.00	2.61	2.25
VSWR Maximum value	≤ 7	≤ 3.3	≤ 3.0
Used in conjunction with Cable	NO Cable	60mm Cable	120mm Cable

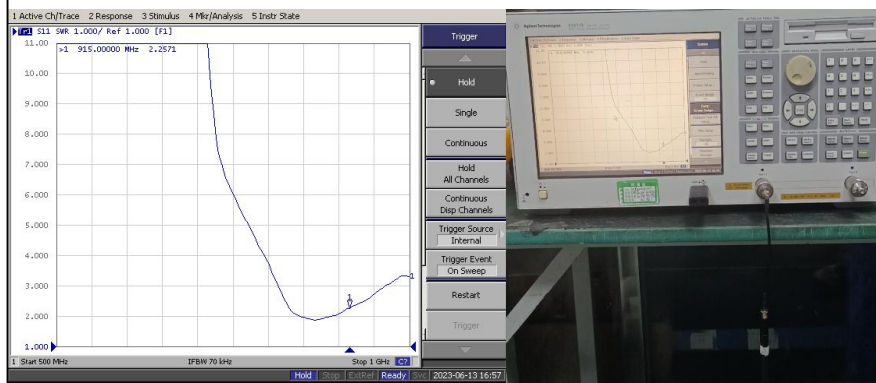
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2-3-3.ANTENNA CONNECTOR RP - SMA -Male(witch on pin)

2-3-4 Picture	NO Cable   60mm Cable  

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120mm Cable



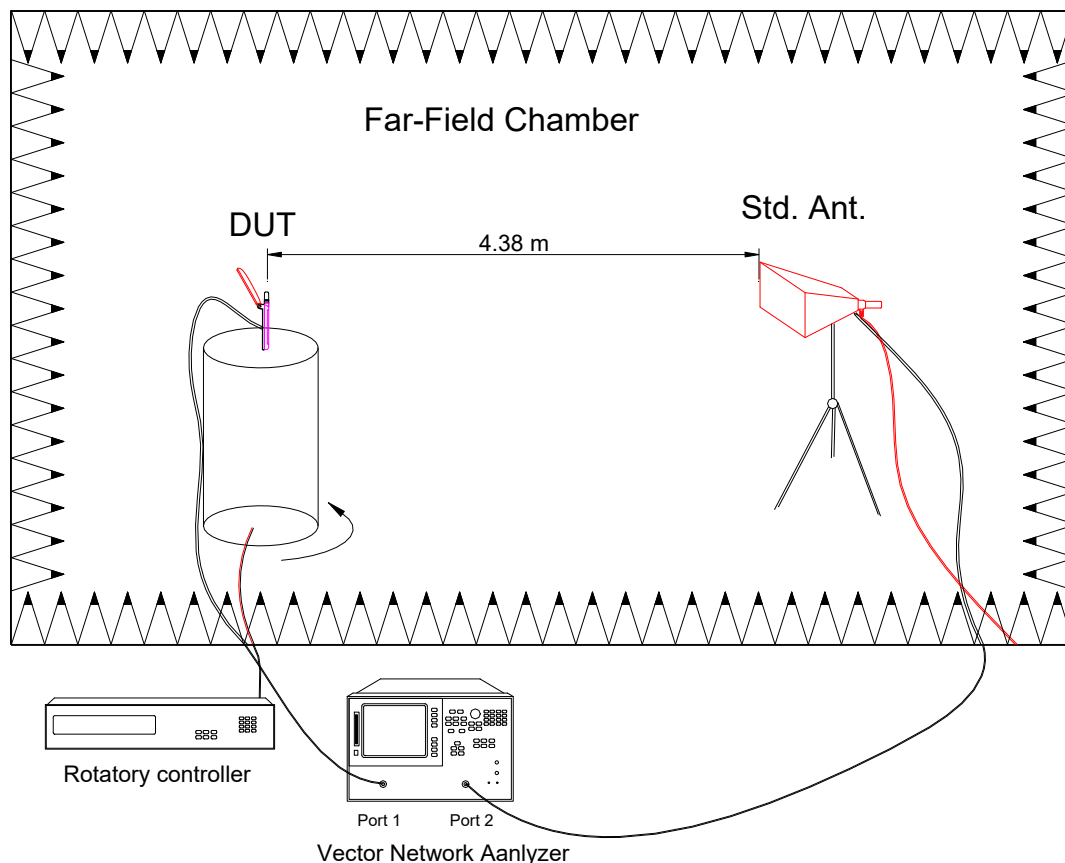
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2-4. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-1 Efficiency and Gain

NO Cable

Freq	Effi	Gain
(MHz)	(%)	(dBi)
910	49.56	-0.24
911	51.15	0.03
912	52.29	0.31
913	53.11	0.53
914	53.69	0.72
915	54	0.86
916	54.18	0.99
917	54.84	1.11
918	54.6	1.25
919	54.84	1.4
920	55.26	1.57

60mm Cable

Freq	Effi	Gain
(MHz)	(%)	(dBi)
910	38.54	0.76
911	40.41	0.94
912	41.71	1.07
913	42.32	1.13
914	42.22	1.14
915	41.63	1.1
916	40.73	1.04
917	39.68	0.96
918	38.6	0.88
919	37.62	0.81
920	36.73	0.73

Freq	Effi	Gain
(MHz)	(%)	(dBi)
910	64.07	1.74
911	65.46	1.79
912	66.06	1.82
913	65.78	1.82
914	64.77	1.79
915	63.31	1.73
916	61.56	1.65
917	59.66	1.57
918	57.91	1.5
919	56.36	1.44
920	54.99	1.39

120mm Cable

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ANGLES=± HOLEDIA=±



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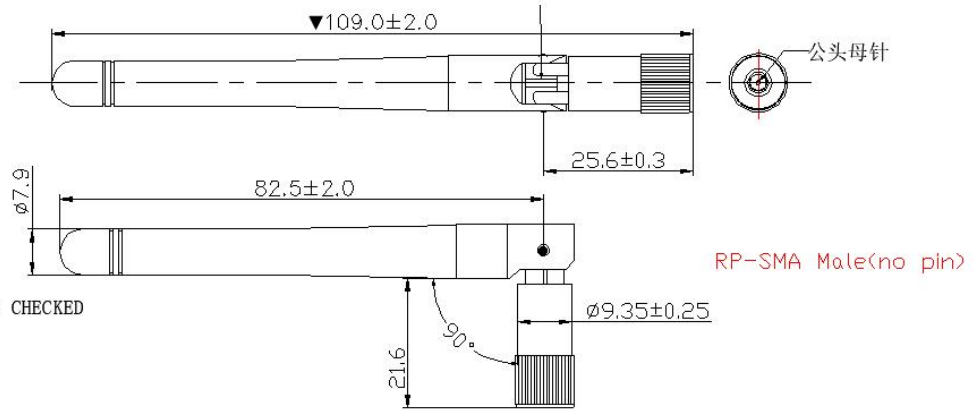
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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



NOTES:

1. DIMENSIONS MARKED ▼ SHALL BE CHECKED

2. Electrical:

2.1 Impedance: 50 OHMs.

2.2 Frequency: 915MHZ

2.3 Peak Gain: 1.5dBi

2.4 Polarization: Linear

2.5 Radiation Pattten:Omni-directional

3. Enviromental:

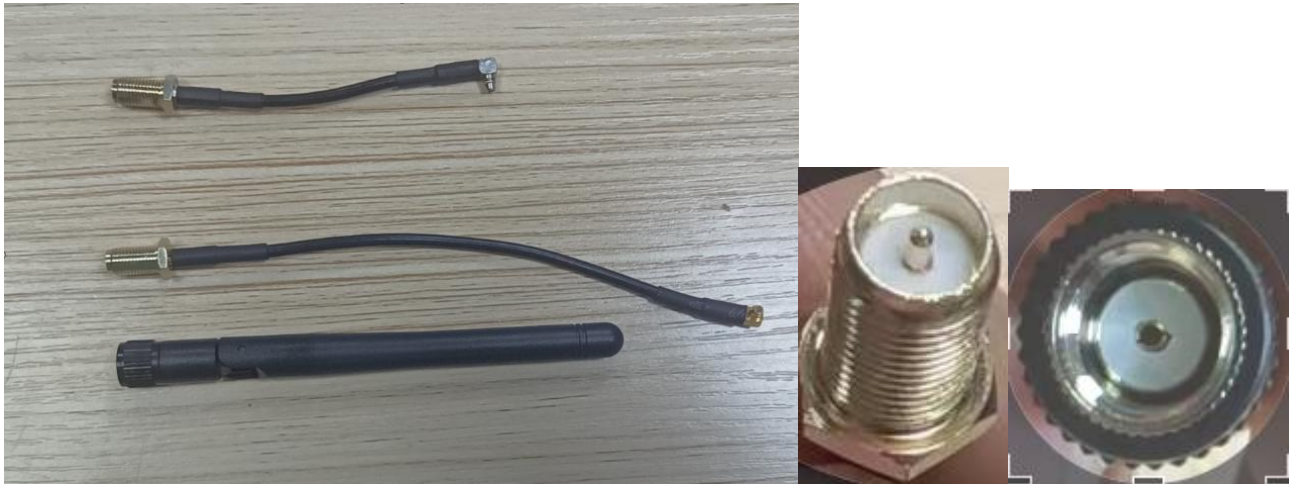
3.1 Storage Temperature Range: -20 TO +65℃

3.2 Operating Temperature Range: -20 TO +60℃

4. HARMFUL MATERIAL AND PROCESS CONTROL , PLEASE FOLLOW ROHS

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3-2.Product Image:



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4.包装规格:

产品料号: XXX

产品型号: XXX

一、标签要求:

需方	XXX		
供方	XXXXX		
物料编码	XX		
产品型号	XX		
数量/单	XXX PCS	出厂日期	X 年 X 月 X 日
备注/其他			

二、装箱要求:

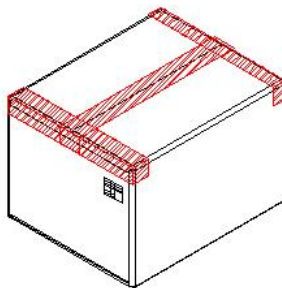
作业说明:

1. 内包装: RP - SMA MALECONNETOR

产品 XX PCS 一袋, 放入小 PE 袋;

2. 外包装: Xx PCS 一箱;

3. 注意事项: a. 是否要增设隔板、珍珠棉; b. 标签的帖附, 如 ROHS 等;



UNLESS OTHER SPECIFIED TOLERANCES ON:

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ANGLES=± HOLEDIA=±



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