

承认书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 共进

产品名称

PRODUCT NAME: 6G 外置天线 L=140MM

客户料号

CUSTOMER P/N:

仁丰料号

RenFeng P/N: 3020202223 REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	顾思远	
AUDITOR BY:	肖玉鹏	
APPROVED BY:	姚定军	
DATE:	2025-03-13	



manufacture:

Dongguan RF Electronic Technology Co., Ltd

Address: No.1 Sankeng Industrial Zone, Qinghutou, Tangxia Town, Dongguan City

电话: 0769-38940168 传真: 0769-39010966 网址: <http://rflink.net.cn>

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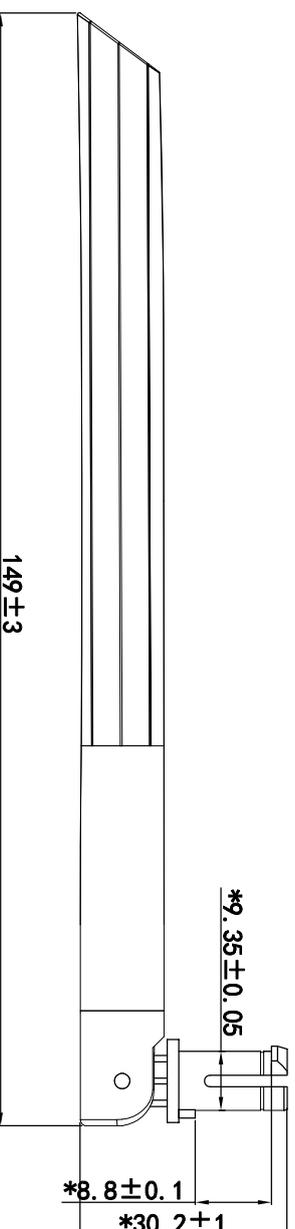
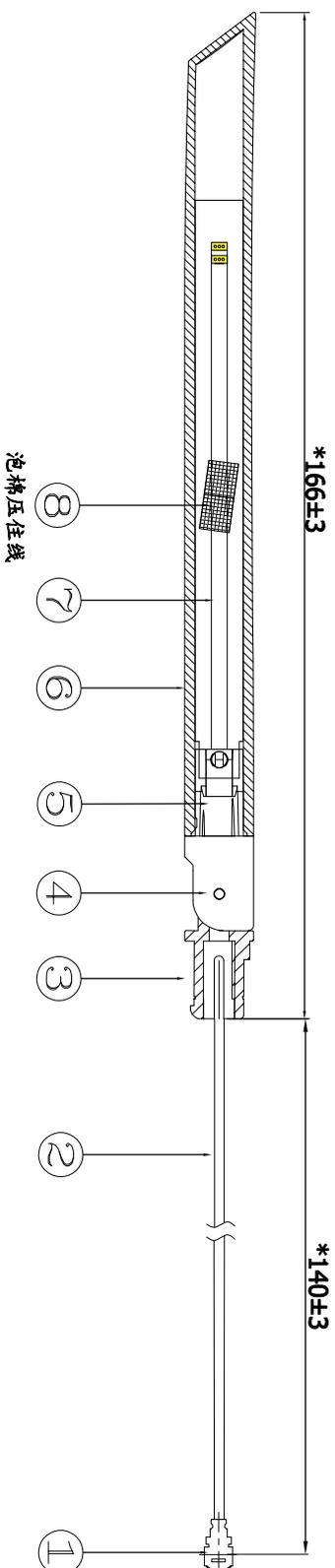


产品主要技术参数

Main technical specifications

主要技术指标		Main technical specifications	
频率范围 (MHZ)	5925-7125MHZ	Frequency Range (MHZ)	5925-7125MHZ
中心频率 特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	2.39	Gain(dBi)	2.39
反射损耗	≤ -10	Return Loss(dB)	≤ -10
输出电压 驻波比	≤ 1.92	VSWR	≤ 1.92
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	出线	Connector Type	出线
物理性能		Physical Properties	
天线本体材 料	ABS	Antenna Base	ABS
工作温度	$-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$

REV	DATE	DESCRIPTION
A	2025-03-13	NEW ISSUE



规格 Specification:
 频率 Frequency Range: 5925-7125MHz
 回波损耗 Return loss: -10dB or less
 驻波比 VSWR: 1.92 max
 增益 Gain(peak): 2dBi

NO.	DESCRIPTION	QTY	REMARK
1	端子	1	Copper
2	线材	1	φ1.37 Blue
3	下固定座	1	PC; Black
4	铆钉	2	POM; Black
5	上固定座	1	PC+ABS; Black
6	杆套	1	TPEE; Black
7	PCB	1	FR-4
8	泡沫	1	EVA; Black

尺寸规格 (mm)

公差 (mm)

APPROVED

CHECKED

DRAWING

角度 ±0.5°

315K ≤ 800 ±0.35

180K ≤ 315 ±0.25

80K ≤ 180 ±0.20

30K ≤ 80 ±0.15

6K ≤ 30 ±0.10

OK ≤ 6 ±0.10

CUSTOMER:	REV	UNIT	SCALE	SIZE	SHEET
PART NO : PARTNAME : RF Antenna Assembly	REV	mm	1 : 1	A4	10F1
R.F P/NO : 3020202223	DRAWING				

RF link

东莞市仁丰电子科技有限公司
 RenFeng Electronic
 technology Co., LTD.

带公差尺寸为检验尺寸
 产品符合环保RoHS2.0之要求

A

B

C

D

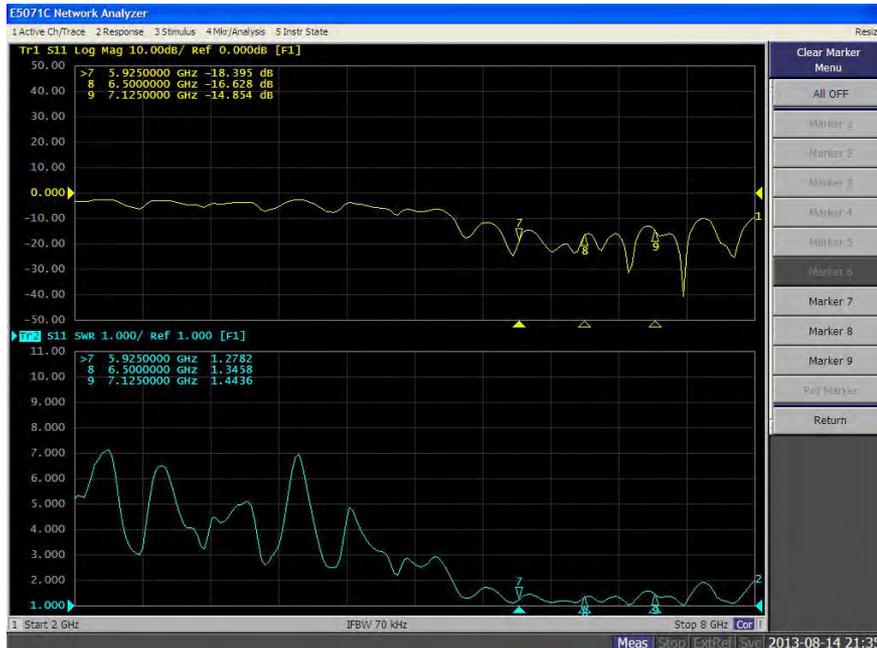
E

F

G

单频天线 (Single frequency antenna) 6G-1

回波损耗与电压驻波比 (Return loss and voltage standing waveratio) VSWR

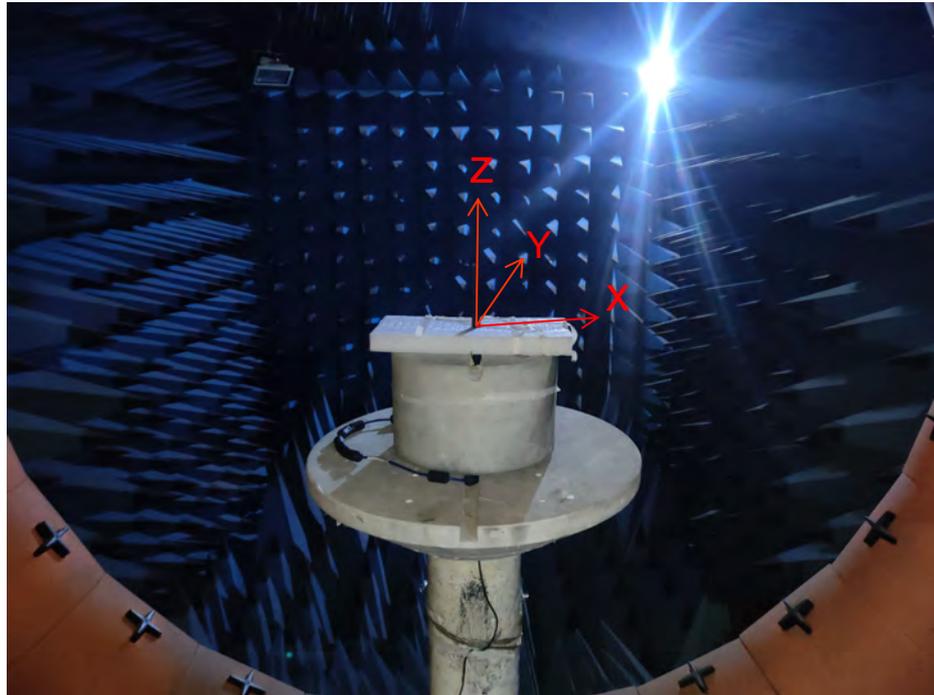


6G-1

BE9400 Project

Coordinate system

RF link



H面: XY

E1面: XZ

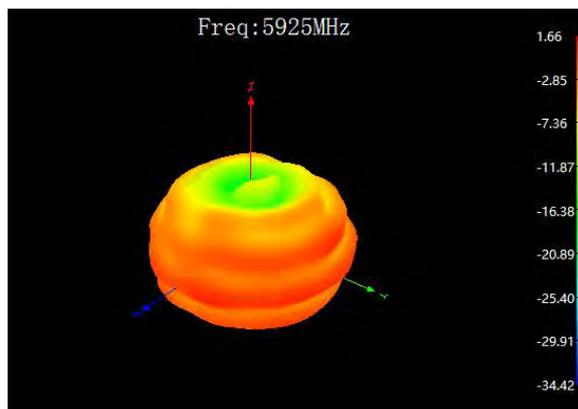
E2面: YZ

增益与远场方向图 (Gain and far-field pattern) 2D/3D Pattern



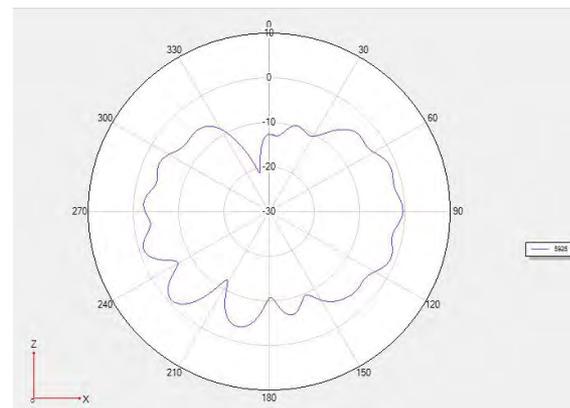
H面: XY
E1面: XZ
E2面: YZ

远场方向图 (Far-field pattern)

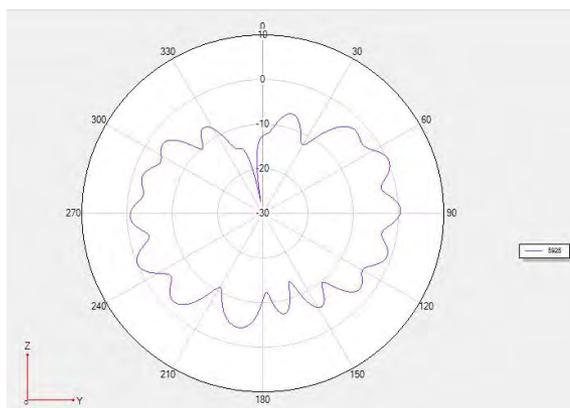


6G-1
5925MHz

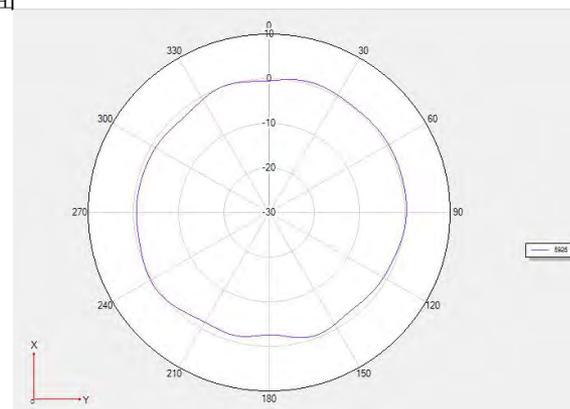
E1面



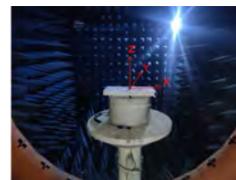
E2面



H面

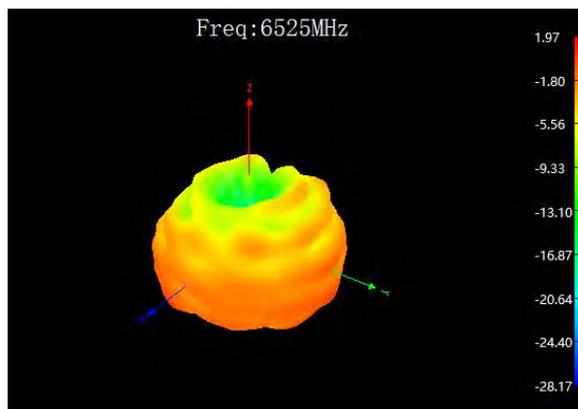


增益与远场方向图 (Gain and far-field pattern) 2D/3D Pattern



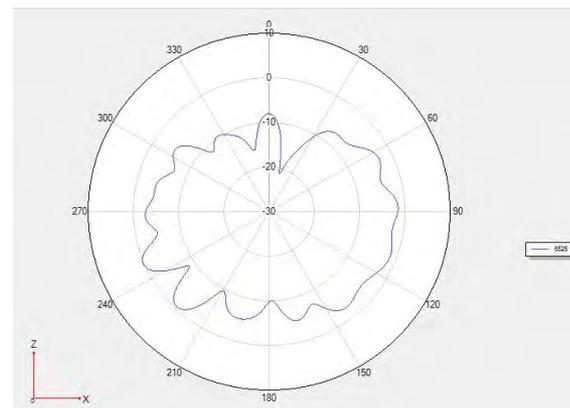
H面: XY
E1面: XZ
E2面: YZ

远场方向图 (Far-field pattern)

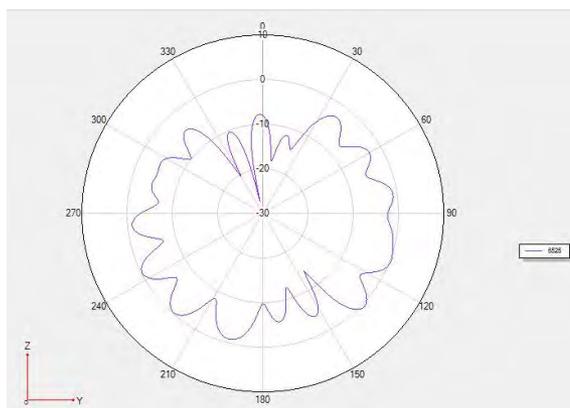


6G-1
6525MHz

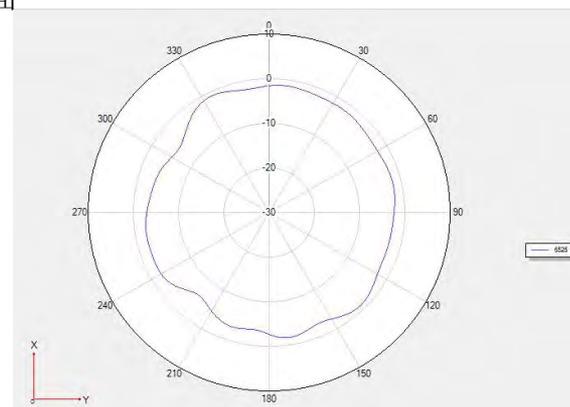
E1面



E2面



H面

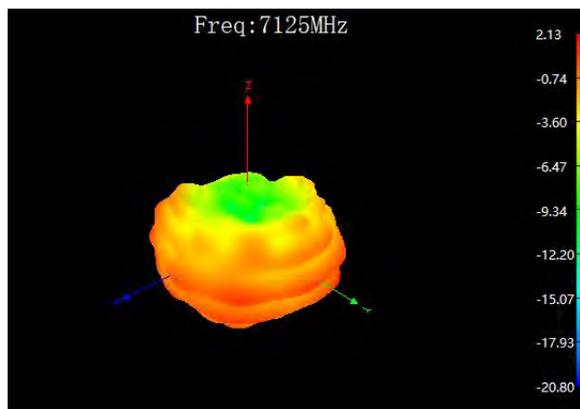


增益与远场方向图 (Gain and far-field pattern) 2D/3D Pattern



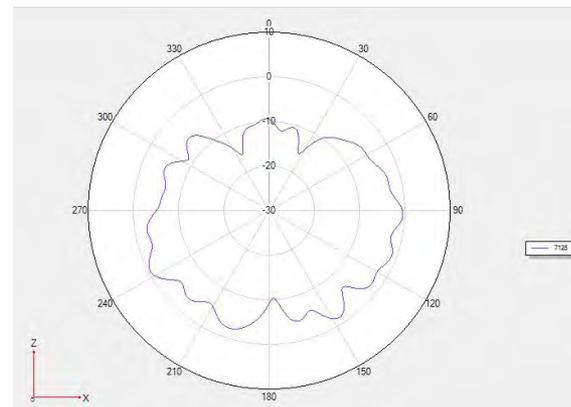
H面: XY
E1面: XZ
E2面: YZ

远场方向图 (Far-field pattern)

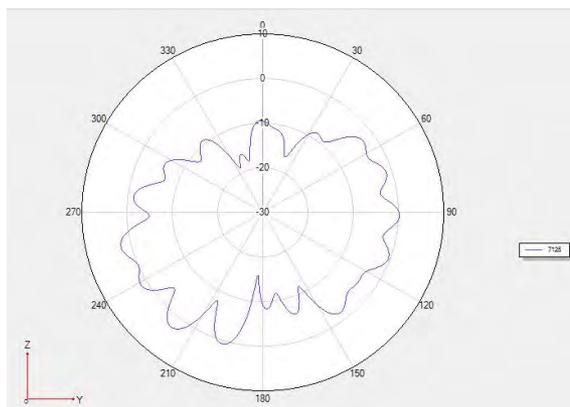


6G-1
7125MHz

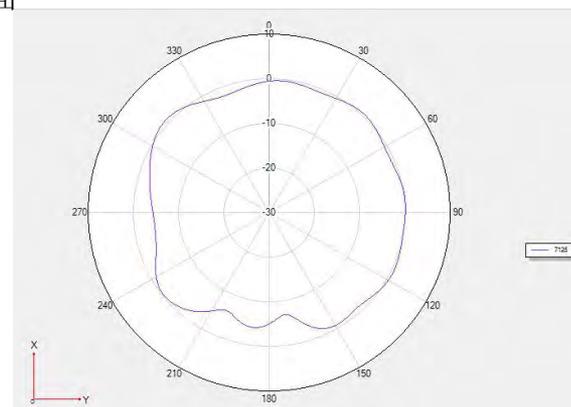
E1面



E2面



H面



BE9400 Project Peak Gain&Efficiency

	6G-1	
Freq (MHz)	Effi (%)	Gain (dBi)
5925	70.34	1.66
5975	71.1	1.78
6025	65.82	1.72
6075	65	1.83
6125	66.17	1.83
6175	65.7	1.86
6225	64.09	1.91
6275	66.52	1.93
6325	62.42	1.76
6375	63.08	2.05
6425	67.76	1.83
6475	60.08	1.74
6525	69.77	1.97
6575	69.06	1.55
6625	61.99	2.03
6675	69.26	1.6
6725	60.39	1.67
6775	64.09	2.39
6825	62.32	2.28
6875	62.86	2.2
6925	68.95	1.88
6975	62.32	2.37
7025	69.26	2.28
7075	61.77	2.01
7125	64.43	2.13

