

深圳市东振技术有限公司

Shenzhen Dongzhen Technology Co., LTD

产品承认书

SPECIFICATION FOR APPROVAL

客 户:

CUSTOMER

湖南旭联科技有限公司

客 户 案 号:

*CUSTOMER P/N:

本 厂 编 号:

OUR MODEL NO:

A1022F0002.WI-AR

产品名称

PRODUCT NAME:

DK2403A WIFI FPC 天线

规 格:

SPECIFICATIONS:

FPC 天线 尺寸:38.6*18.2mm 焊接 L=100mm
一代端子 RF1.13 黑色线

样 品 数:

QTY:

1

日 期:

Date:

2025-12-16

深圳市东振技术有限公司 Shenzhen Dongzhen Technology Co., LTD			Customer 客户承认
射频 RF	结构 Structural	核准 Approved	签名（盖章）
王家喜	周磊	代文振	

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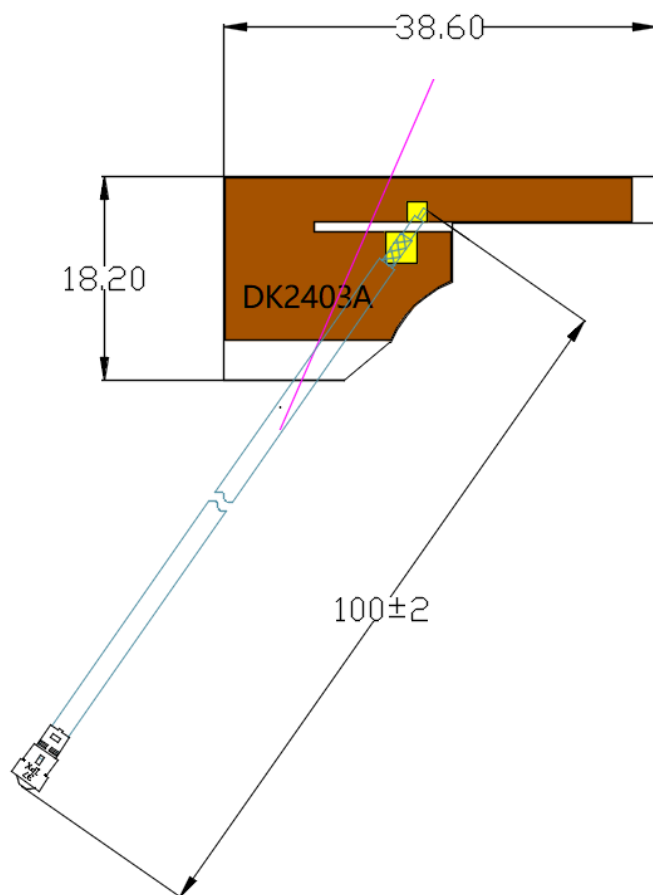
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三 基本参数 The basic parameters

主要技术指标		Main technical specifications	
频率范围 (MHz)	2400-2500	Frequency Range (MHz)	2400-2500
特性阻抗(Ω)	50	Impedance(Ω)	50
峰值增益(dBi)	4.31	Peak Gain(dBi)	4.31
电压驻波比	≤ 2.5	VSWR	≤ 2.5
最大功率	10W	Admitted Power	10W
极化方式	线极化	Polarization	linear polarization
连接方式	IPEX-1	Connector Type	IPEX-1
物理性能		Physical Properties	
天线本体材料	FPC	Antenna Base	FPC
颜色	黑色	Colour	Black
天线尺寸	38.6*18.2mm	Antenna Dimensions	38.6*18.2mm
连接线长度	100mm	Connecting line length	100mm
工作温度	-20℃~+85℃	Operating Temp	-20℃~+85℃

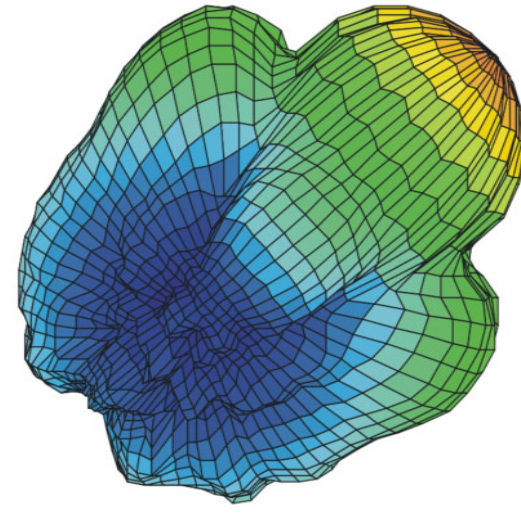
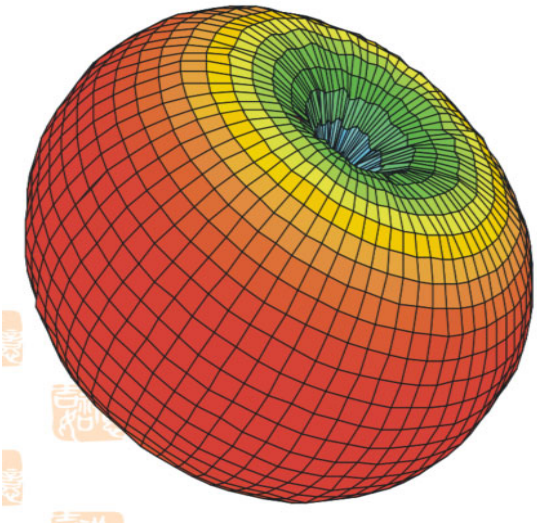
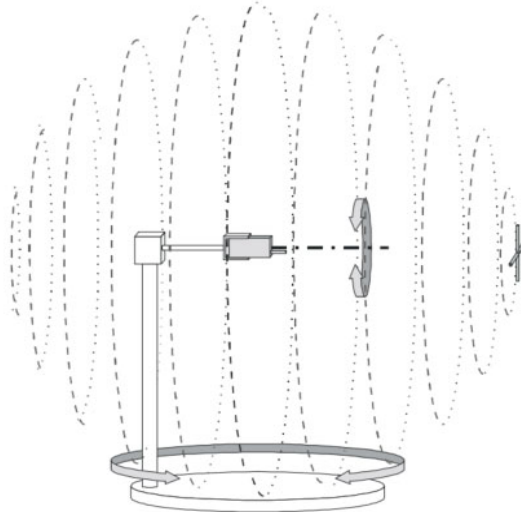
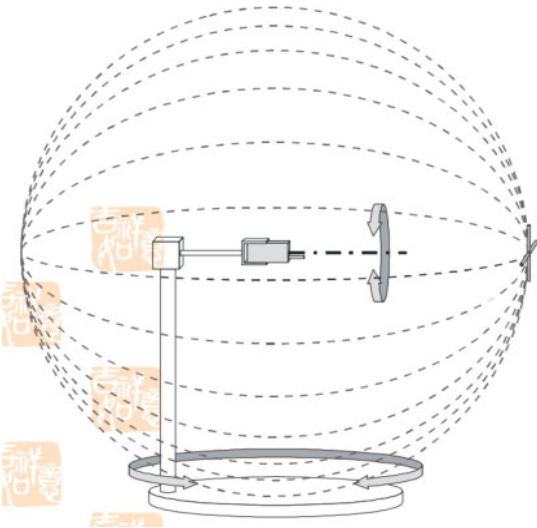
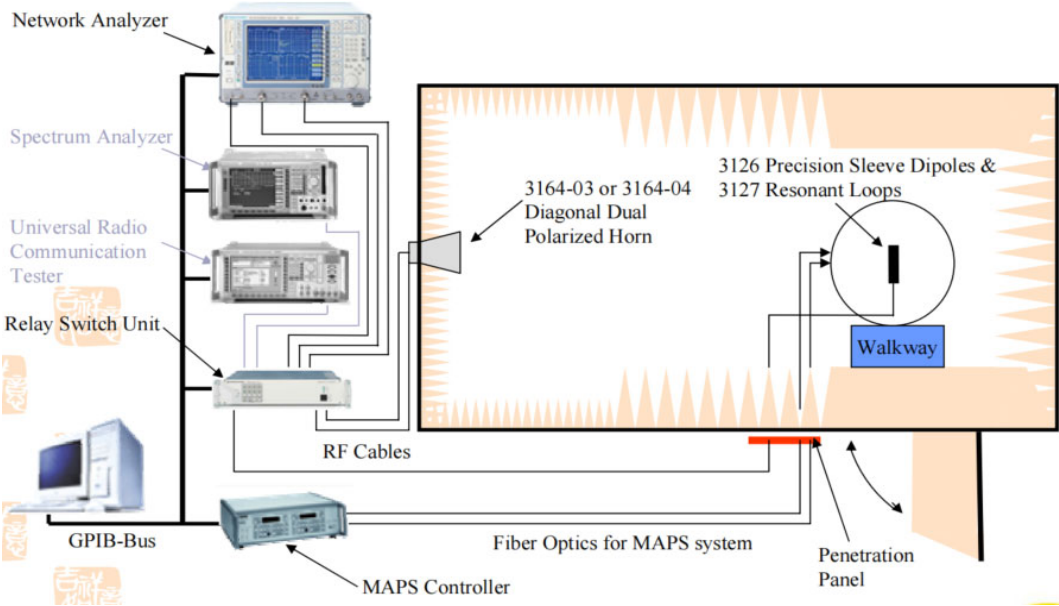
四 工程图纸 Product Drawing

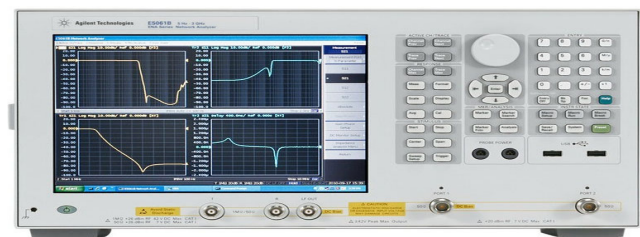
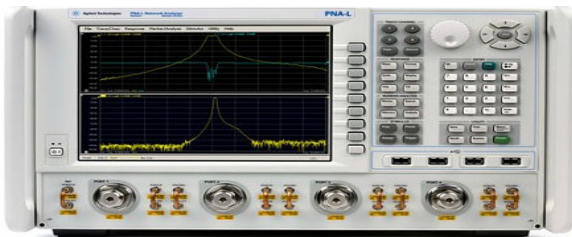
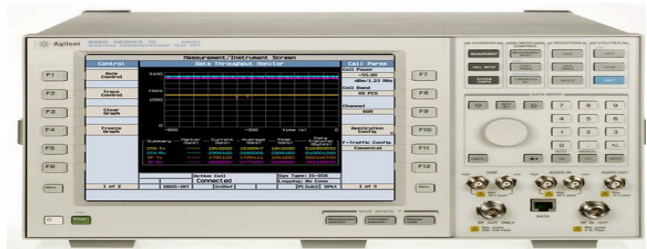
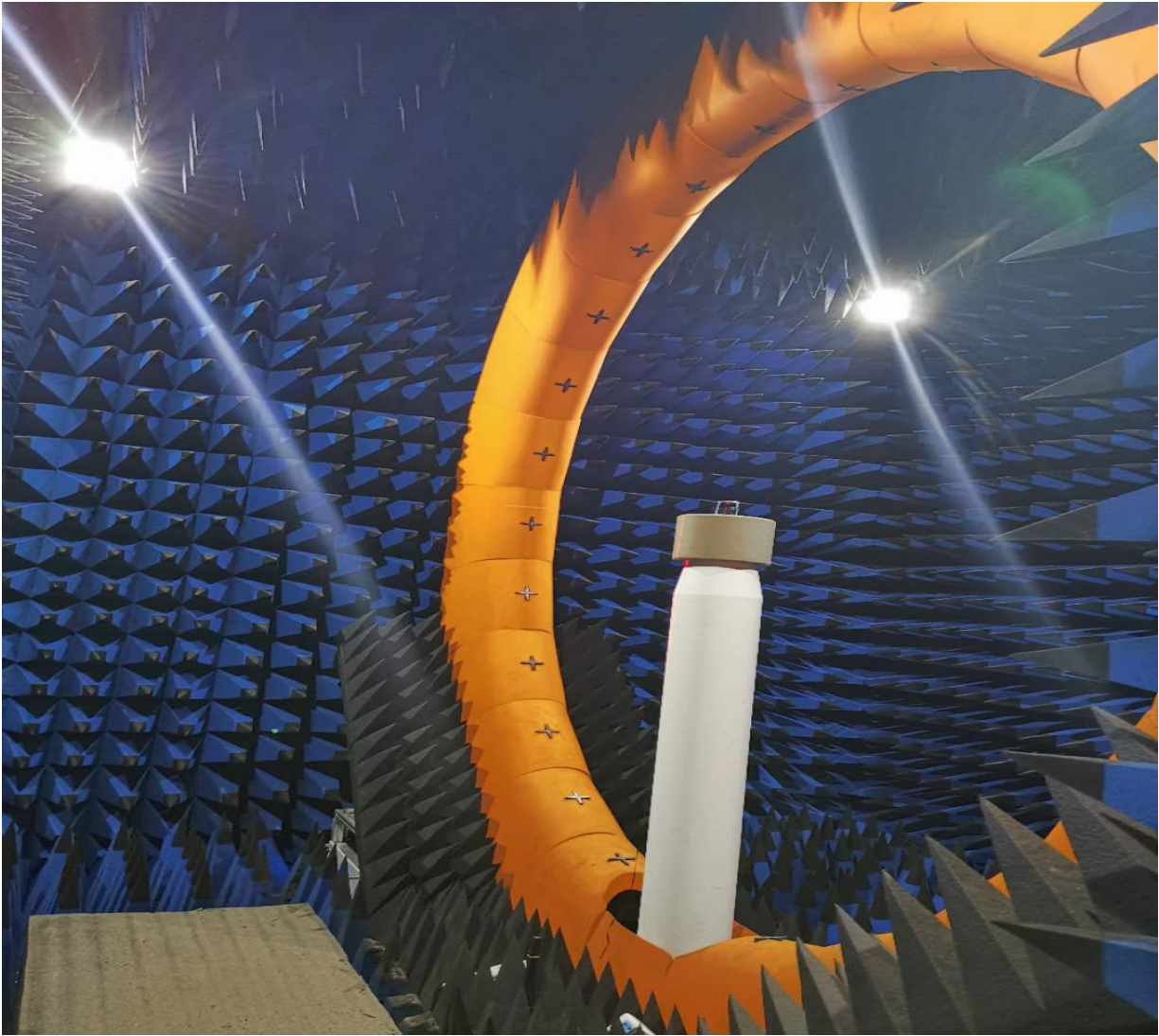


五 天线安装方式 (Antenna installation method)



六 测试设备 The Equipment&Conditions

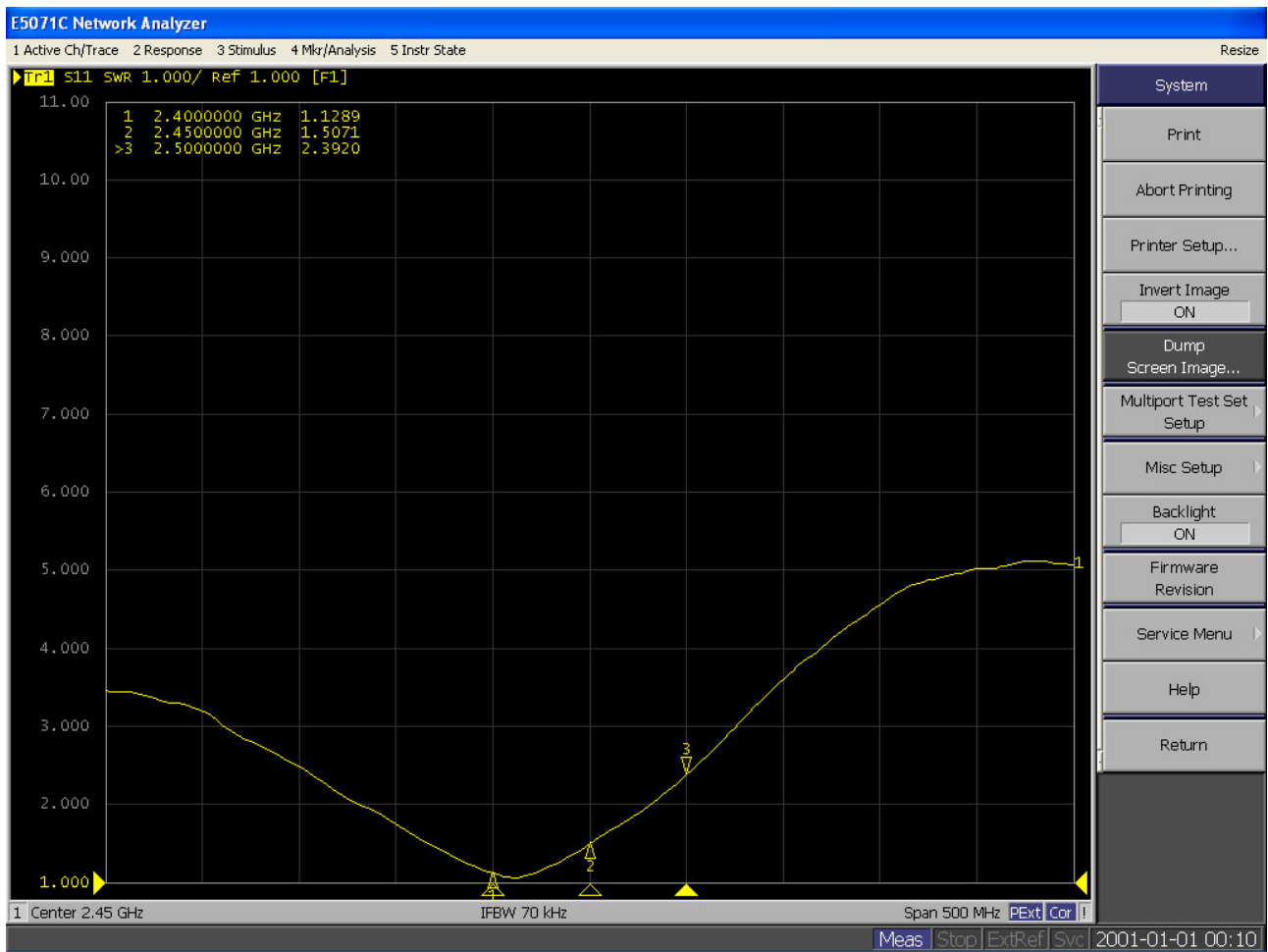




**Agilent 8960、Agilent E5515C、R&S CMW500、Anritsu MT8820C、
Agilent5071C、R&S ZVB 8、HP 8753D、HP-8594E**

七 性能测试报告 (The Report)

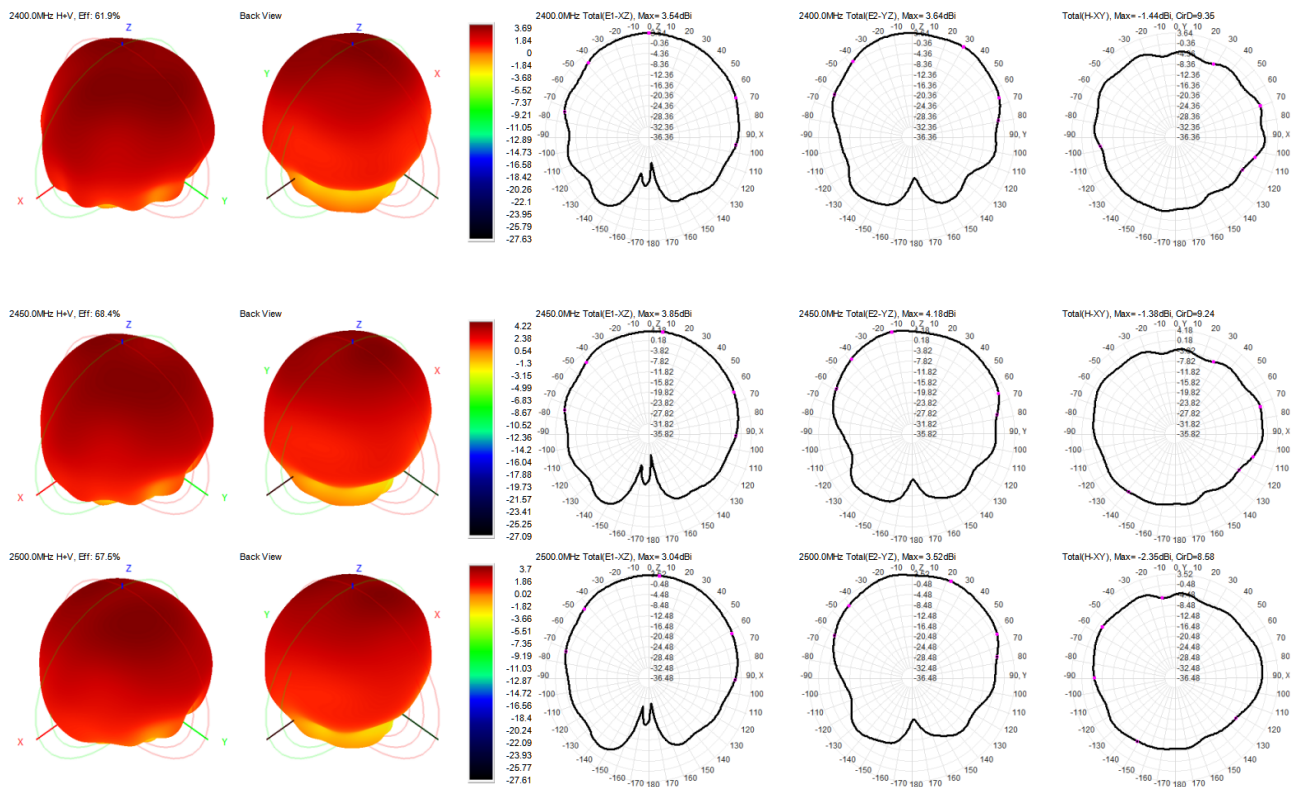
7.1 驻波 (SWR)



7.2 无源测试数据 增益 效率 3D 图

Frequency ID	1	3	5	7	9	11	13	15	17	19	21
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.08	-1.93	-1.83	-1.74	-1.58	-1.65	-1.63	-1.74	-1.78	-2.04	-2.40
Gain (dBi)	3.69	3.83	4.19	4.21	4.31	4.22	4.23	4.15	4.11	3.92	3.70
Efficiency (%)	61.94	64.10	65.69	67.00	69.57	68.44	68.70	66.99	66.30	62.48	57.51
Directivity (dB)	5.77	5.76	6.02	5.95	5.88	5.87	5.86	5.89	5.90	5.97	6.11
Peak Gain Position (Theta)	24.00	5.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	23.00	23.00
Peak Gain Position (Phi)	32.00	309.00	283.00	284.00	285.00	286.00	288.00	291.00	294.00	61.00	60.00
Efficiency ThetaPol (%)	30.12	31.51	32.20	32.79	34.09	33.67	34.34	33.42	33.07	30.65	28.22
Efficiency PhiPol (%)	31.82	32.59	33.49	34.22	35.47	34.78	34.36	33.57	33.23	31.83	29.29
Upper Hem. Efficiency (%)	50.98	53.06	54.49	55.55	57.56	56.56	56.78	55.51	55.17	52.27	48.33
Lower Hem. Efficiency (%)	10.97	11.04	11.20	11.45	12.01	11.88	11.92	11.48	11.13	10.21	9.18

T90(H)圆度	9.35	9.28	9.38	9.53	9.50	9.24	8.84	8.35	8.19	8.28	8.58
Gain 15deg (dBi)											
E1(XZ)波谱宽度	105.00	104.00	106.00	106.00	106.00	105.00	106.00	105.00	106.00	105.00	105.00
E1(XZ)前后比	9.65	9.62	8.98	9.02	8.98	8.84	8.67	8.48	8.27	8.12	8.05
E2(YZ)波谱宽度	104.00	104.00	100.00	102.00	104.00	104.00	103.00	103.00	104.00	105.00	104.00
E2(YZ)前后比	11.16	11.84	11.31	11.43	11.60	11.74	11.64	11.63	11.84	12.20	12.70
最大增益处轴比(P)	23.43	39.23	57.98	45.66	39.19	37.00	34.49	34.11	35.84	47.81	41.62
仰角10度最差(大)轴比(P)	59.92	68.71	87.02	77.38	70.13	63.87	86.46	64.55	92.13	78.42	66.79
Hc(XY)波谱宽度	76.00	77.00	80.00	79.00	79.00	78.00	78.00	79.00	80.00	81.00	81.00
Hc(XY)前后比	6.32	6.38	6.60	6.73	6.63	6.38	6.01	5.70	5.64	5.81	6.06
左旋圆极化效率(%)	32.33	33.34	34.39	34.76	35.76	34.77	34.36	33.21	32.69	30.70	28.47
右旋圆极化效率(%)	29.61	30.75	31.30	32.25	33.81	33.68	34.34	33.78	33.61	31.78	29.04



八 包装 (packaging)

一、标签要求 labeling requirement

深圳市东振技术有限公司

客户名称	*****
订单号	*****
产品名称	*****
物料编码	 *****
数 量	*****
日 期	*****

二、装箱要求 The packing requirements

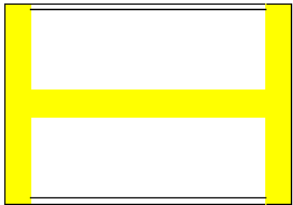
作业说明: job description

1.内包装: inside packing

产品 50 PCS/扎 Product 50 PCS /bind

2.外包装: external packing

根据实际包装数量/箱 According to the actual packing quantity / box



注意事项: matters need attention:

1、包装需根据产品实际情况增加保护措施如隔板、珍珠棉等。

packaging should add protection measures such as partition, according to the actual situation of products, pearl cotton.

2、需按照客户指定要求增加标签或其他内容如 ROHS 标签、月份标签等。

Labels or other contents such as ROHS label and month label shall be added as specified by the custom