

SPECIFICATION

Shenzhen Feixin Wireless Communication



深圳飞芯无线通讯有限公司

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 WIFI FPC 天线

(1.13*黑 L115mm 1 代 IPEX 端子)

产 品 规 格 书

客 户		频 段	2400-2500/5180-5825MHz
产品名称	2.4/5.8G FPC 天线	版 本	A1
客户料号		飞芯料号	FX-2.4G/5.8G-FPC-115B-1
产品描述	2.4G/5.8G FPC 天线，1.13 黑色线，1 代 IPEX 端子；		
R F 设计	陈亮	射频经理	金勇
结构设计	谢凯军	结构经理	陈小华
技术总监	Andy	日 期	2024-12-20

客户确认：

装配是否符合贵司要求： ☐OK ☐NG

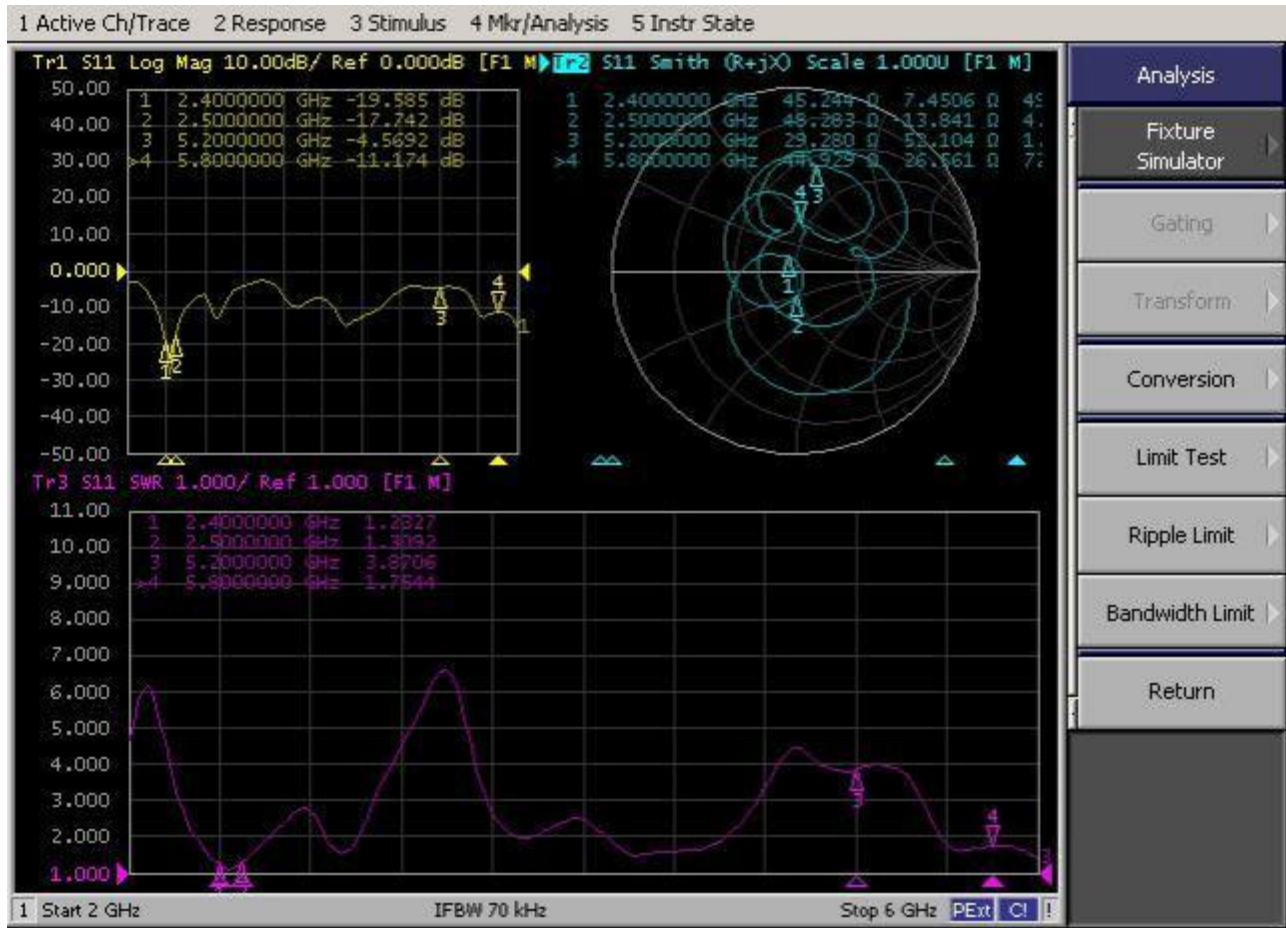
一、产品图片 Product Appearance



二、产品参数 Product Spec

产品参数 Product Spec			
产品名称(Name)	2.4G/5.8G FPC 天线	产品型号(Model Type)	FX-2.4G/5.8G-FPC-115B-1
电性能指标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5180-5825MHz	极化方式 (Polarization)	垂直
输入阻抗(Impedance)	50 Ω	辐射方向	全向
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	4dBi	带宽 (Bandwidth)	100/645MHz
机械指标 (Mechanical Specifications)			
尺寸 (Dimensions)	35.63*11 $\pm$ 0.15 mm	外壳颜色(Radome Color)	黑色
连接器型号 (Connector)	1代 IPEX	引线长度(Cable Length)	115 $\pm$ 3 mm
天线材料 Radome Material	FPC		
工作温度 (Working Temperature)	-40 $^{\circ}$ C-+85 $^{\circ}$ C	存放温度 (Limit Temperature)	-40 $^{\circ}$ C-+85 $^{\circ}$ C

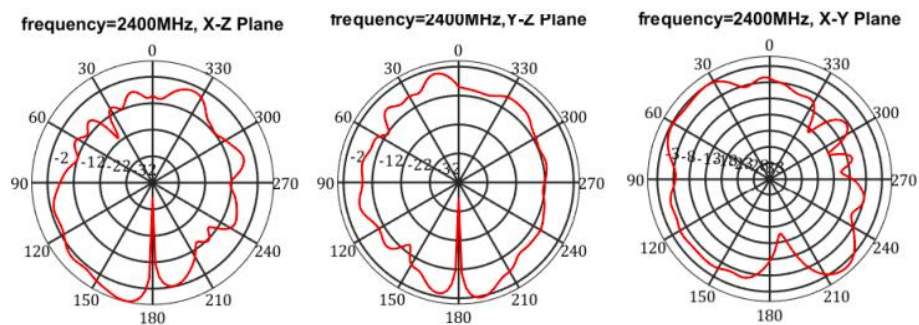
三、S11 (VSWR 、 Return loss 、 Smith)



四、天线增益数据 Antenna Gain

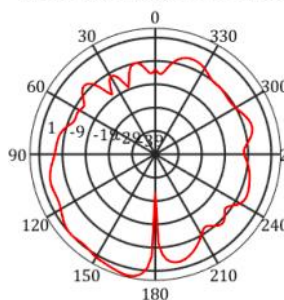
Frequency(MHz)	ANT	
	Efficiency (%)	Peak Gain(dBi)
2400	25.79	3.91
2450	30.42	4.01
2500	26.10	4.08
5150	24.83	3.66
5200	24.11	3.68
5250	23.68	3.79
5300	27.42	3.88
5350	22.57	4.05
5400	21.59	4.07
5450	23.60	4.03
5500	23.05	4.61
5550	26.19	4.76
5610	27.43	4.94
5670	29.31	4.63
5730	22.29	4.57
5790	25.09	3.86
5850	28.47	3.96

2400MHz

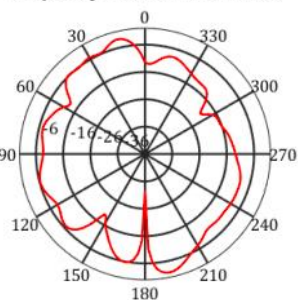


2450MHz

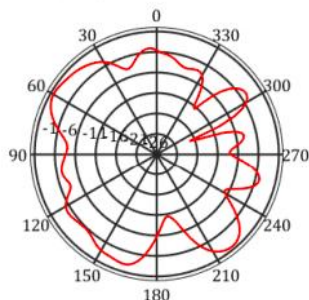
frequency=2450MHz, X-Z Plane



frequency=2450MHz, Y-Z Plane

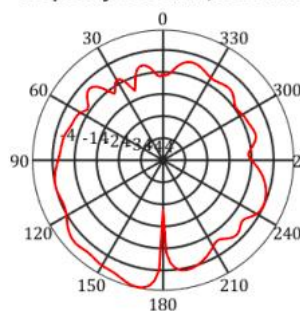


frequency=2450MHz, X-Y Plane

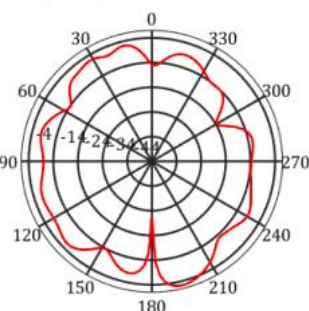


2500MHz

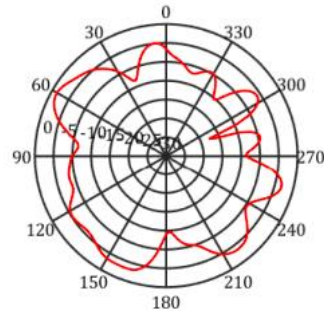
frequency=2500MHz, X-Z Plane



frequency=2500MHz, Y-Z Plane

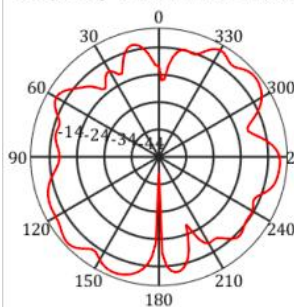


frequency=2500MHz, X-Y Plane

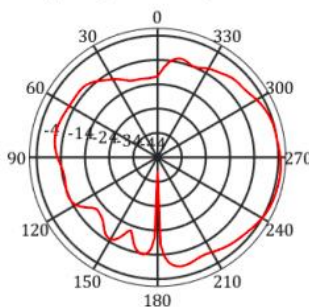


5150MHz

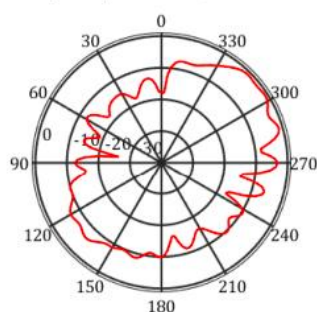
frequency=5150MHz, X-Z Plane



frequency=5150MHz, Y-Z Plane

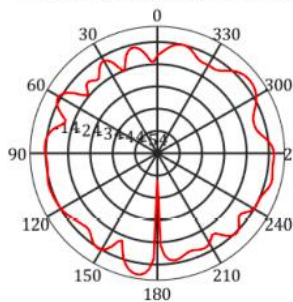


frequency=5150MHz, X-Y Plane

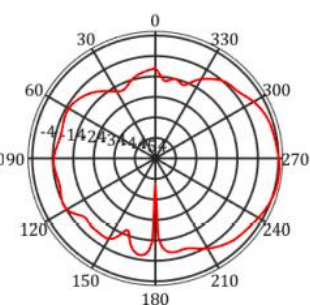


5550MHz

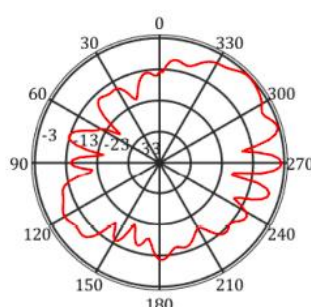
frequency=5550MHz, X-Z Plane



frequency=5550MHz, Y-Z Plane

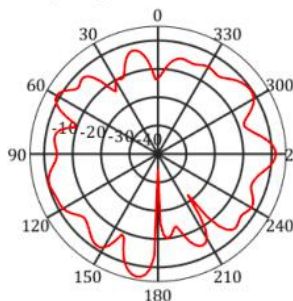


frequency=5550MHz, X-Y Plane

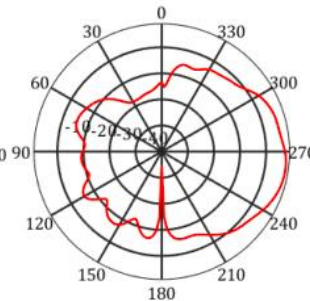


5850MHz

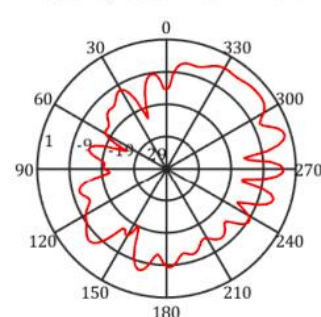
frequency=5850MHz, X-Z Plane



frequency=5850MHz, Y-Z Plane



frequency=5850MHz, X-Y Plane



五、结构图纸 Structural Drawings

