



# 规格承认书

## Specification for Approval

客户名称: YNOT Co., Ltd (Solu-m)

Customer:

规格描述: 2.4/5.8G PCB Antenna with IPEX, RF1.13 Black Cable, L=226mm

Part name

飞宇信料号: 3.03.1001003199 (reserved)

Part No.

客户料号:

Customer Part No.

客户承认印 Customer Approval		
APPROVAL	CHIEF	SUPERVISOR

制造厂商承认 Manufacturer Recognition			
SALES	CHECK	CHIEF	DESIGN
<i>Effy</i>	<i>Mr. Li</i>	<i>Jerry</i>	<i>Ms. Zheng</i>
Date:2023-10-20		Date:2023-10-20	
THANKS FOR OFFERING US THE OPPORTUNITY TO SEND SAMPLES FOR APPROVEMENT. PLS KINDLY SIGN BACK THIS DOCUMENT TO US WHEN SAMPLES ARE APPROVED.			

### FEIYUXIN HEADQUARTER

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**Modification Record**

Revision	Date	Engineer	Modified Content
01	2023.10.20	Ms. Zheng	NEW



## Product Specifications

### 1. Antenna Specs

Product Name: 2.4/5.8G PCB Antenna with RF1.13 Black Cable	
DESCRIPTION	VALUE
Frequency range	2400-2500/5150~5850MHz
Impedance	50Ω
V.S.W.R	Compare with sample
Gain	3dBi
Radiation	Omni-directional
Radiating element	1/4 Wave Helical
Polarization	linear Vertical
Admitted power	5W
Connector	IPEX/U.FL
Cable type	RF1.13
Operating temp	-40°C~+70°C
Storage temp	-45°C~+75°C

### 2. Cable Specs

#### 1.13 Structure



Item	Material	OD(mm)
1. Inner conductor	Tinned copper wire	7/0.08±0.02
2. Insulator	PE	0.66±0.02
3. Outer conductor	Tinned copper wire	0.88±0.05
4. Jacket	FEP	1.13±0.05

**Electrical performance**

Capacitance(pF/m)	96±3
Impedance(ohm)	50
Rate(%)	66
Bending radius (mm)	≤7
Maximum operating voltage (VMS)	1000
Maximum operating frequency (MHz)	6000
Operating temperature range (°C)	-40 TO +80

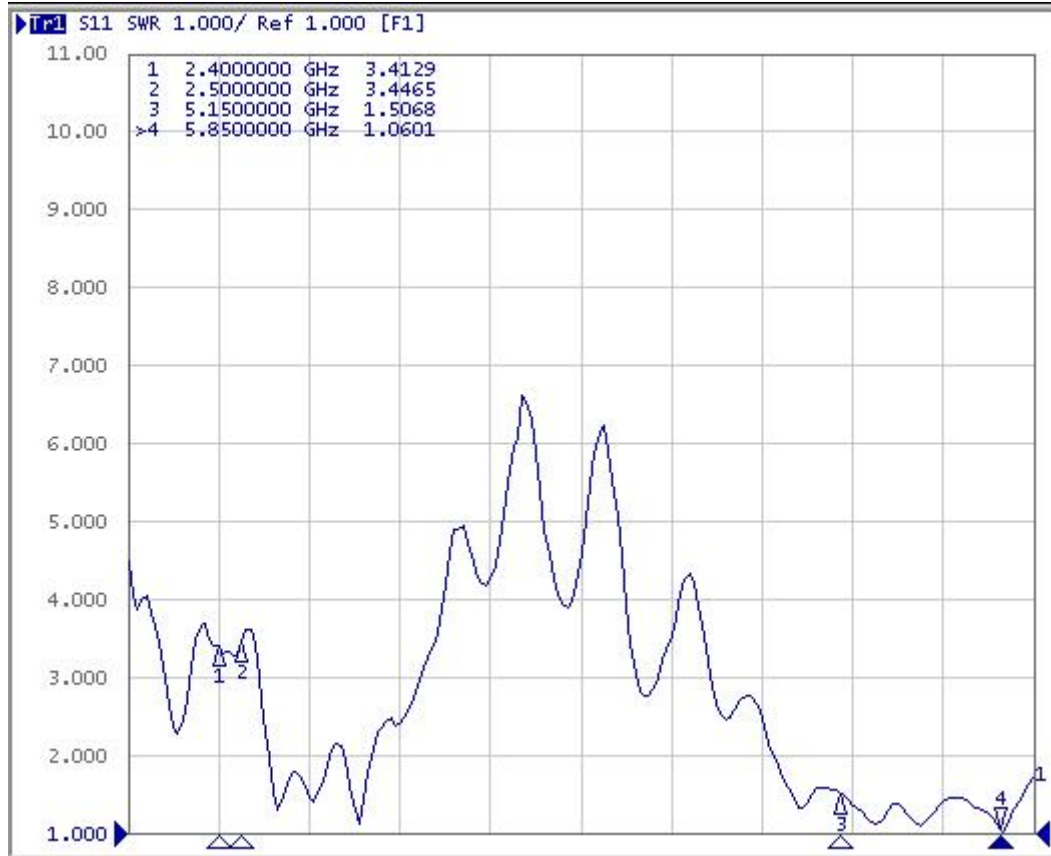
**Attenuation (typical)**

Frequency (MHz)	Attenuation (≧dB/m)
100	0.42
400	0.58
1000	2.20
2000	3.40
3000	4.20
4000	4.50
5000	5.20
6000	5.60

# Test Report

(Empty test without customer's device)

## 1. VSWR Test



## 2. Efficiency and Gain Test

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	56.08	-2.51	3.59	1.44
2410	52.47	-2.8	3.08	0.93
2420	47.27	-3.25	2.37	0.22
2430	47.83	-3.2	2.57	0.42
2440	47.09	-3.27	2.35	0.2
2450	51.95	-2.84	2.72	0.57
2460	52.99	-2.76	2.96	0.81
2470	46.17	-3.36	2.16	0.01
2480	49.42	-3.06	2.86	0.71
2490	43.37	-3.63	1.79	-0.36
2500	44.11	-3.55	2.12	-0.03

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5150	75.15	-1.24	2.8	0.65
5220	56.1	-2.51	1.84	-0.31
5290	60.66	-2.17	1.52	-0.63
5360	76.42	-1.17	2.94	0.79
5430	94.7	-0.24	4.47	2.32
5500	81.71	-0.88	2.83	0.68
5570	83.32	-0.79	2.75	0.6
5640	63.53	-1.97	2.3	0.15
5710	72.77	-1.38	3.61	1.46
5780	72.95	-1.37	3.04	0.89
5850	54.23	-2.66	1.73	-0.42