

SPECIFICATION

Spec No : HJX.11

Part No. : HJX.11.A153

Product Name : 2.4/4.9/5.8GHz 5dBi Screw mount Dipole Antenna

Description : IPEX Connector
Dimensions: 95*13 mm
ROHS Compliant

REVISION STATUS

Version	Date	Page	Revision Description	Prepared	Approved
1	2018-11-11	A11	New product	YX Product Centre	SHAWN

1.0 Introduction

The YX.11 2.4/5.8 GHz dipole IPEX antenna is ideal for 2.4/4.9/5 GHz wireless applications such as Bluetooth and Wireless LAN. At 95mm in length omni-directional 4.3dBi peak gain across all bands ensures constant reception and transmission.

2.0 Electrical Properties

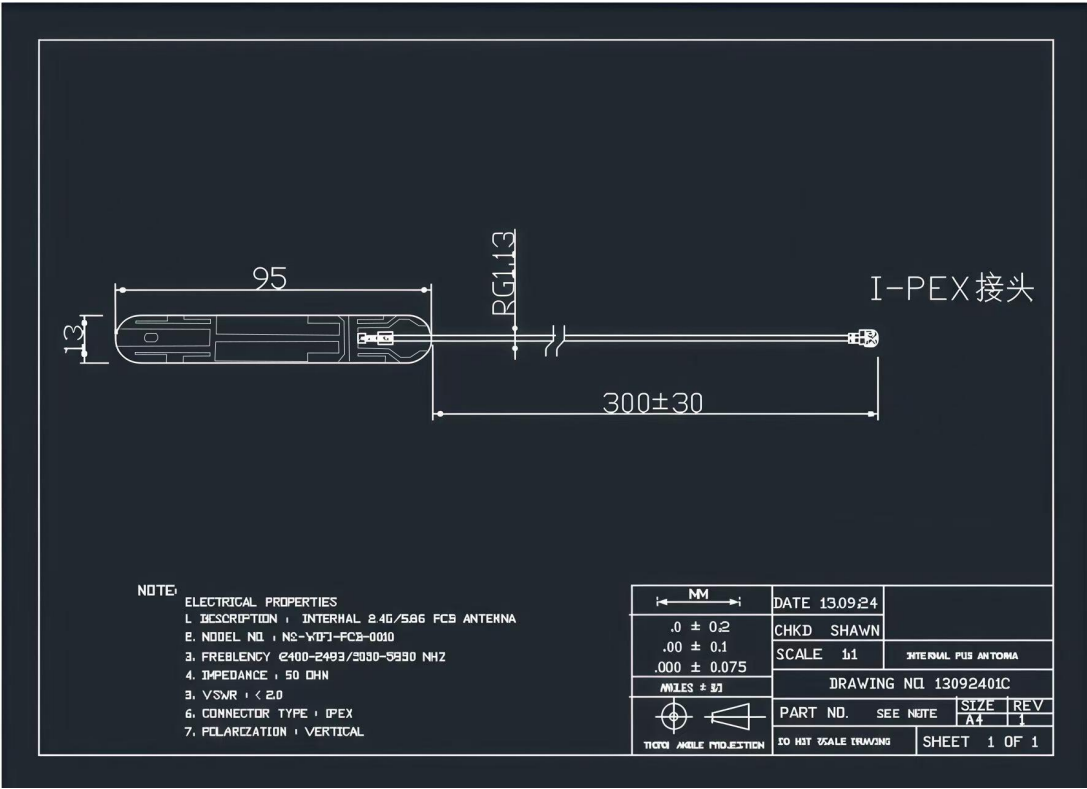
1.1	Frequency	2400-2483/ 4.9 GHz ~ 5.8 GHz
1.2	Gain (peak)	4.3dBi
1.3	V. S. W. R	2.0MAX
1.4	Return Loss	-10dB Maximum
1.5	Radiation	Omni-directional
1.6	Polarization	Linear Vertical
1.7	Power Handling	5W

3.0 Mechanical Properties

2.1	Cable	RG-1.13 Coaxial Cable
2.2	Antenna Cover	
2.3	Antenna Base	
2.4	Operating Temperature	-20°C ~ +65°C
2.5	Storage Temperature	-30°C ~ +75°C
2.6	Color	Black
2.7	Connector	IPEX

4.0 Outline Drawings and Structure

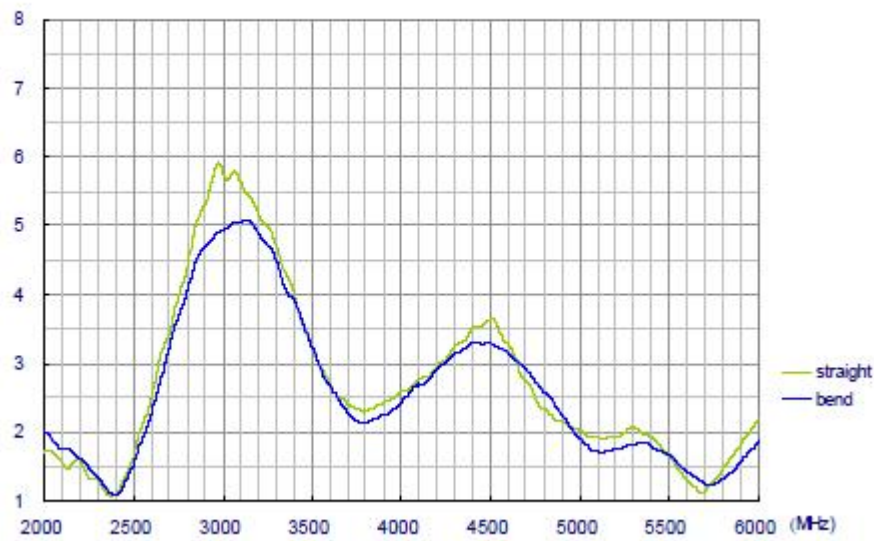




5.0 Measurements

VSWR

2.2. VSWR

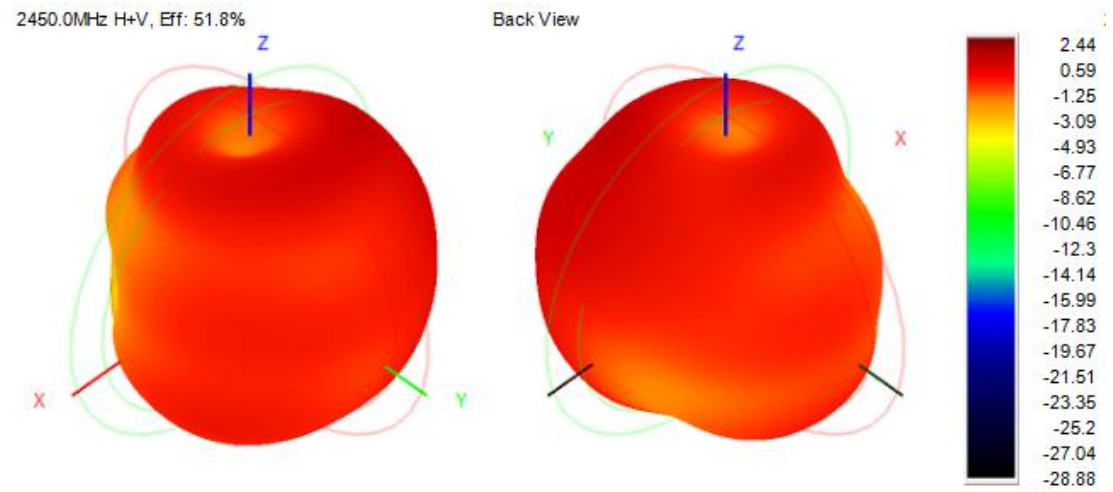


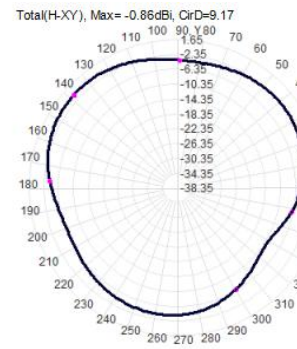
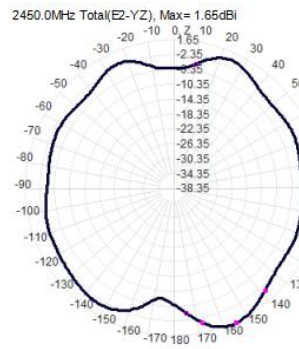
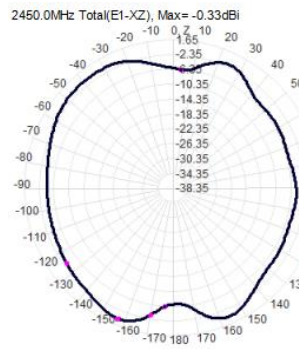
4. 22. 2 天线的增益效率:

Marker (MHz)	2400	2450	2500	5150	5350	5500	5700	5850
Gain (dBi)	2.61	2.44	2.69	2.74	2.52	1.95	1.57	1.73
Efficiency (%)	52.26	51.84	52.52	57.38	58.78	55.83	50.47	50.20

4. 22. 3 天线的辐射方向图:

2450 MHz:

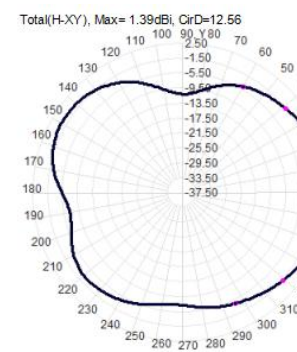
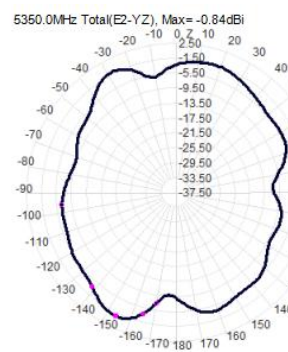
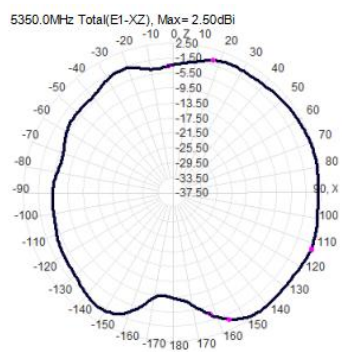
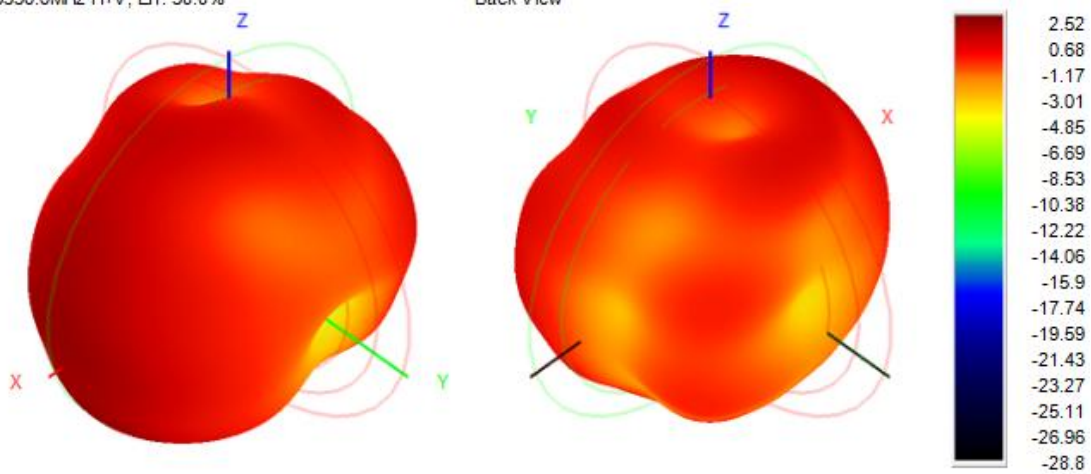




5350 MHz:

5350.0MHz H+V, Eff: 58.8%

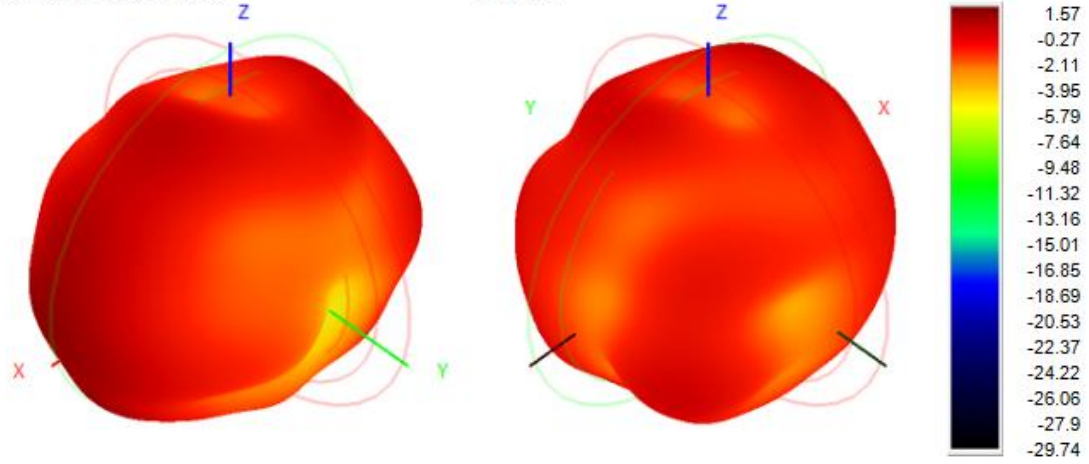
Back View



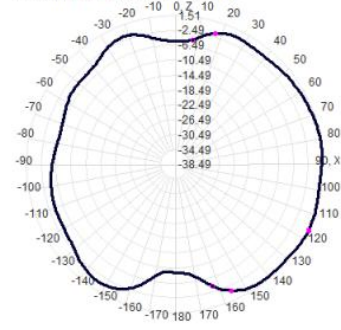
5700 MHz:

5700.0MHz H+V, Eff: 50.5%

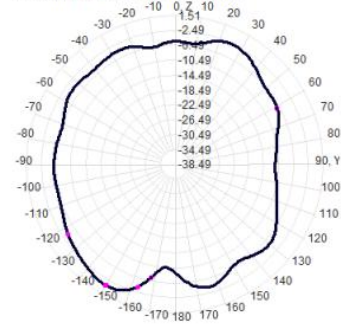
Back View



5700.0MHz Total(E1-XZ), Max= 1.51dBi



5700.0MHz Total(E2-YZ), Max= -1.13dBi



Total(H+XY), Max= 0.88dBi, CrD=12.67

