

STPCA371512IBA101 Specification

2.4G FPC Antenna

1. Feature

- * 2400~2500MHz of frequency
- * ϕ 0.81 Black Cable
- * ROHS compliance

2. Application

- * 2.4G Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

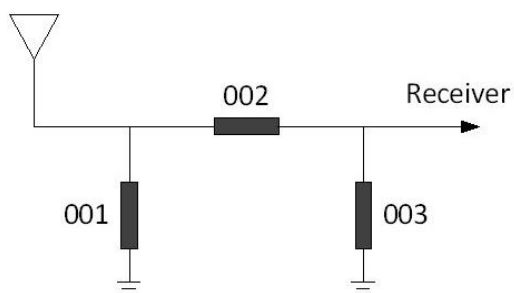
The antenna was specially designed by Suzhou Tongxie Electronics Co.,Ltd, for 2.4G FPC Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Part No.	STPCA371512IBA101
Frequency	2.4~2.5GHz
V.S.W.R	≤ 2.0
Gain (dBi)	$\leq 4.0\text{dBi}$
Polarization	Vertical
Term of validity	Six months
Storage Temp	$23 \pm 3^{\circ}\text{C}$
Operating Temperature	$-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
Impedance with Matching	50Ω
Connector	MHF-3 PLUG (818003484)
Dimension	37*15mm

5. Typical Electrical Characteristics

- Recommend Matching Circuit



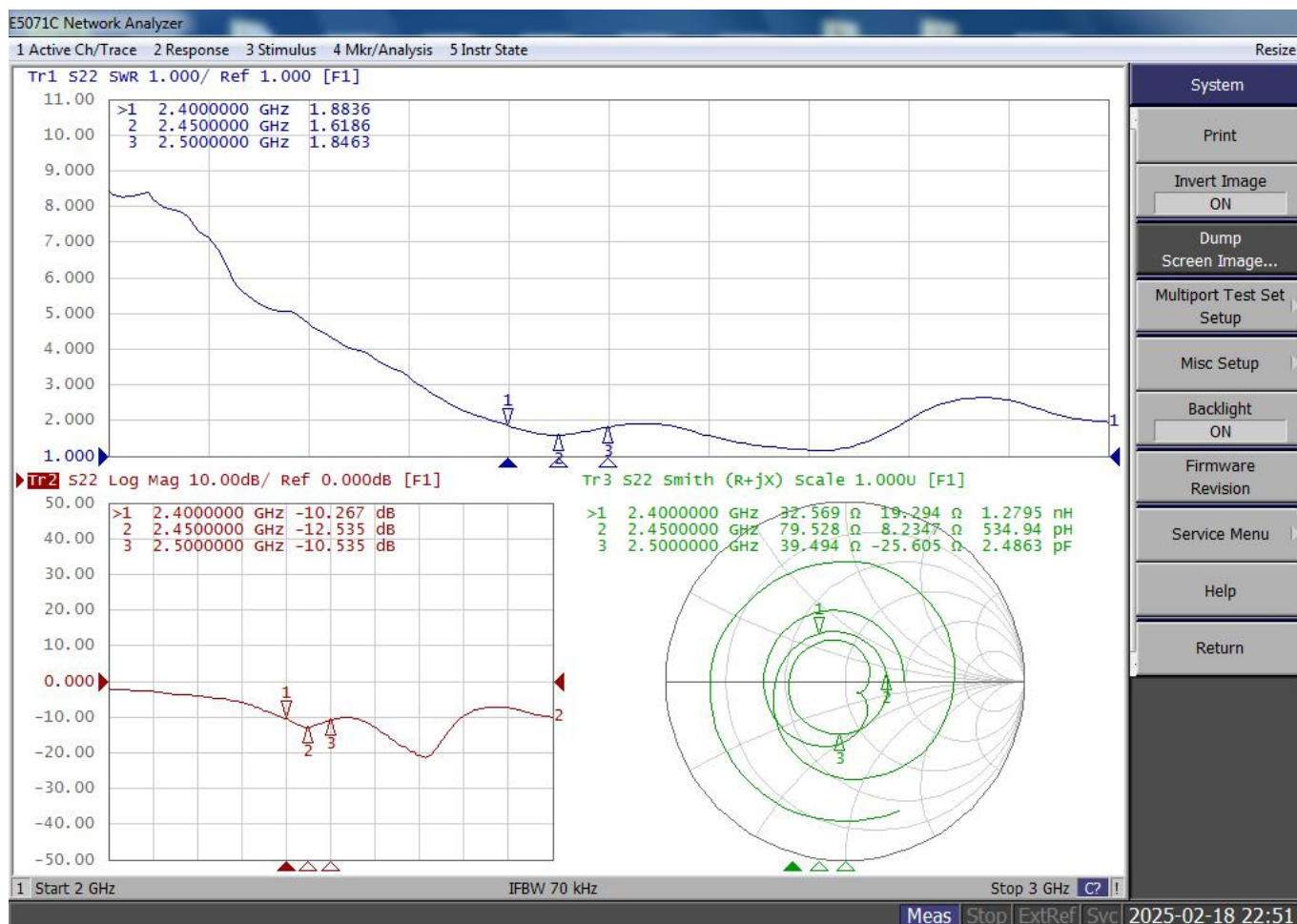
Reference:

001=(N/A)

002=0 Ω

003=(N/A)

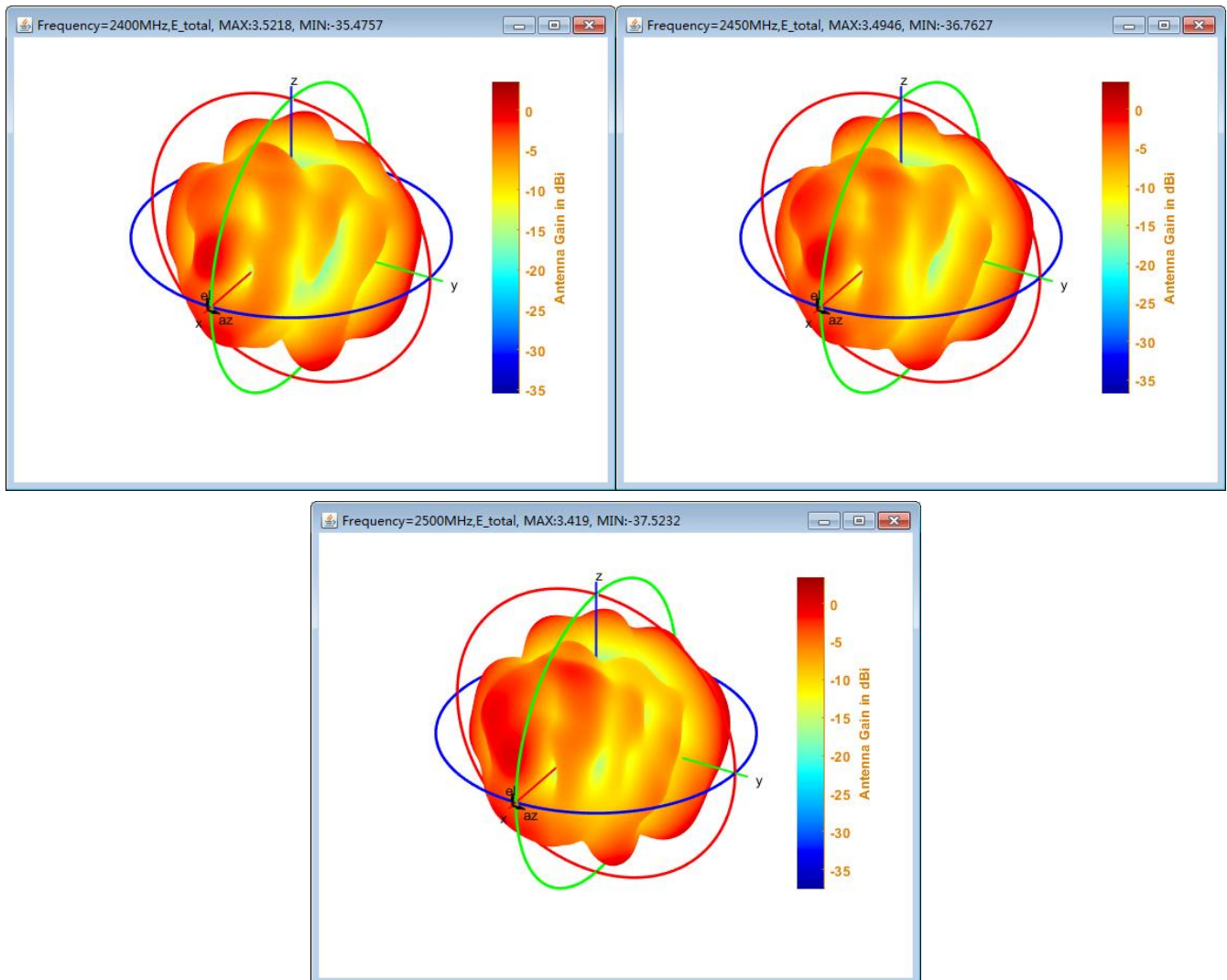
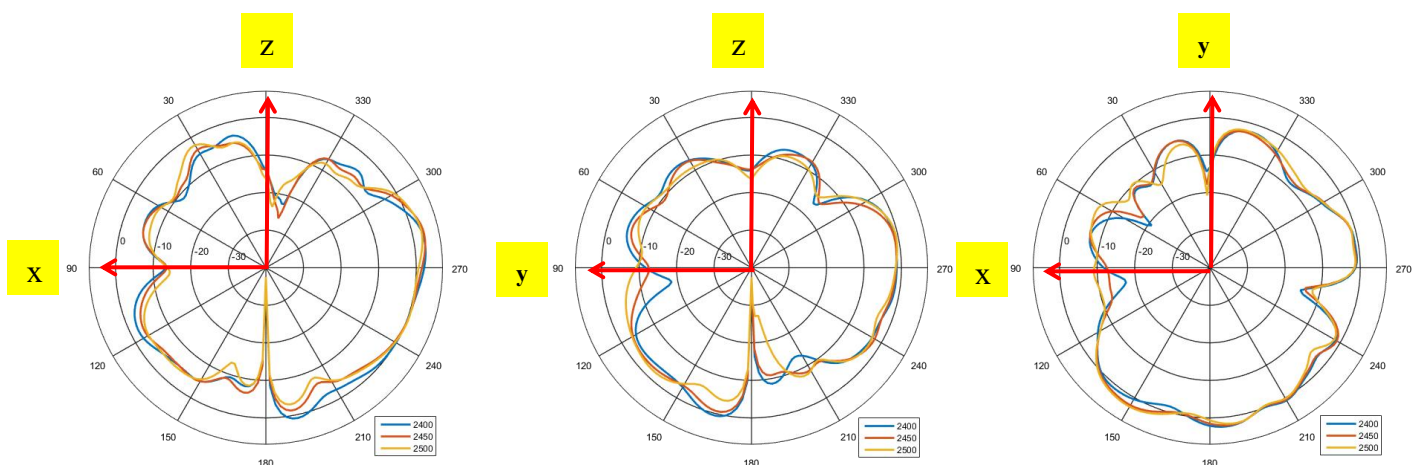
- Return loss、VSWR& Smith chart



Frequency Total Data

Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	6.5608	3.5218	-3.039	49.6704
2410	6.4347	3.3569	-3.0778	49.2286
2420	6.3143	3.3126	-3.0017	50.099
2430	6.3466	3.4731	-2.8735	51.6004
2440	6.4417	3.4527	-2.989	50.2462
2450	6.4906	3.4946	-2.996	50.1648
2460	6.6155	3.629	-2.9866	50.2741
2470	6.6885	3.6836	-3.0049	50.0623
2480	6.534	3.3674	-3.1666	48.2325
2490	6.4582	3.253	-3.2052	47.8061
2500	6.5346	3.419	-3.1156	48.8024

2D&3D test pattern

**XZ Plane****YZ Plane****XY Plane**

6. Dimension

