

### Feature

- External type dipole antenna
- 2.4GHz of frequency
- N-YPTE Plug Stright interface
- Plastic rod of black
- IP67
- RoHS compliance

### Application

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



### Description

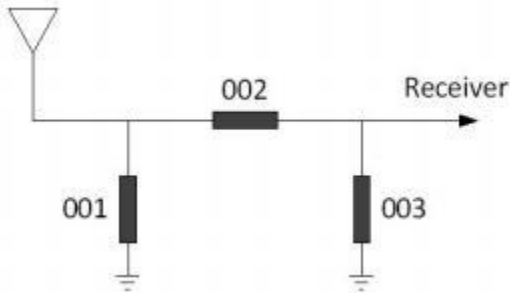
This miniature antenna is designed for 2.4GHz applications and can be easily built-in portable devices with N-TYPE processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

### General Data

<b>Product Name</b>	DRA2G6D-N
<b>Part NO.</b>	6dBi 2.4G Dipole Antenna
<b>Frequency</b>	2400~2500MHz
<b>V.S.W.R</b>	≤2.0
<b>Peak Gain (dBi)</b>	6.0dBi
<b>Polarization</b>	Linear,Vertical
<b>Storage Temp</b>	-10°C~+70°C
<b>Operating Temperature</b>	-10°C~+60°C
<b>Antenna Type</b>	N-TYPE PLUG Stright
<b>Impedance with Matching</b>	50 Ω
<b>Dimension</b>	L318X φ 21(mm)

## Typical Electrical Characteristics

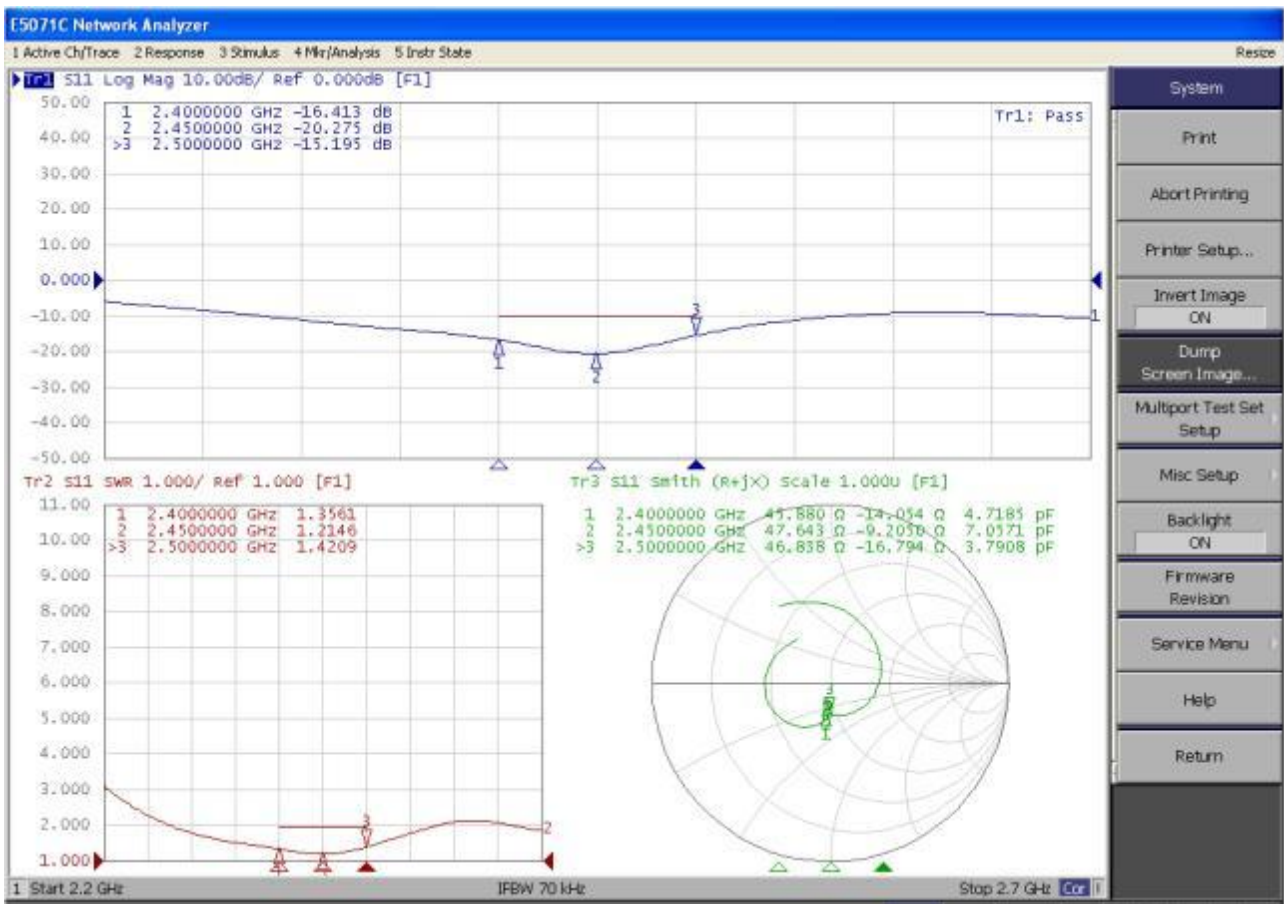
- Recommend Matching Circuit



Reference:

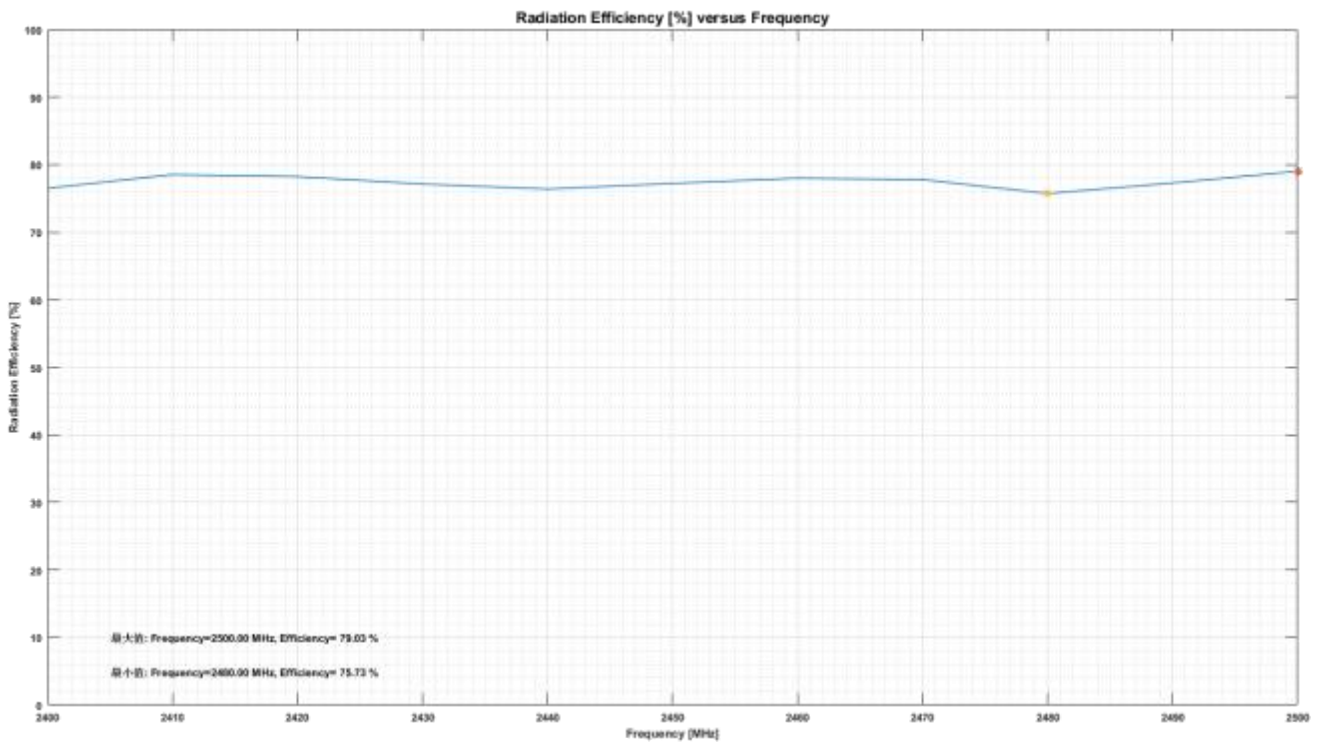
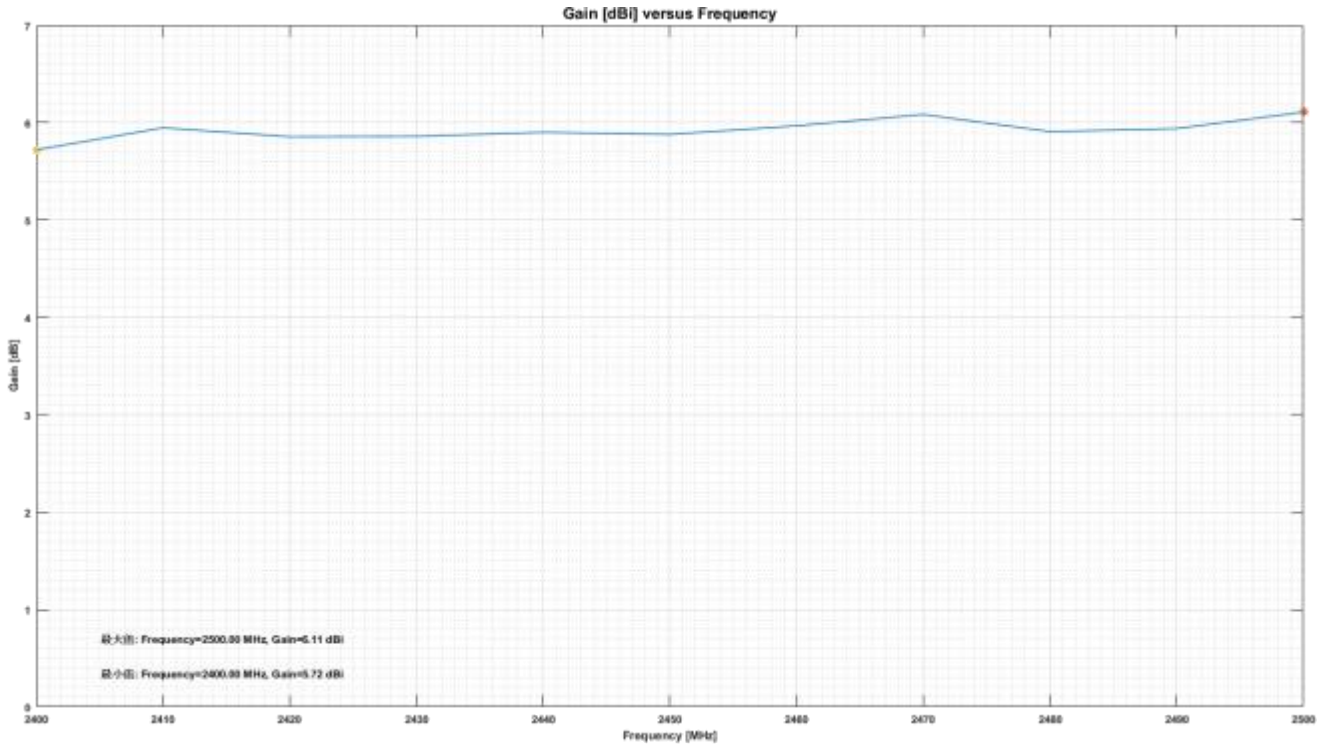
001=(N/A)  
 002=0Ω  
 003=(N/A)

- Return loss 、 VSWR& Smith chart

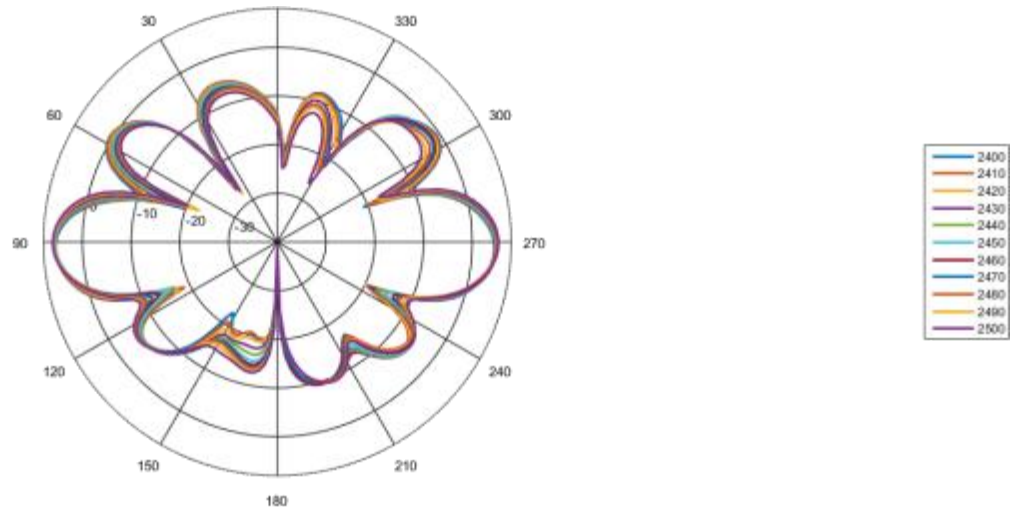


### ➤ Efficiency (%)&Gain (dBi)

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Directivity (dB)	6.8836	6.9978	6.9222	6.9879	7.071	7.0028	7.0477	7.175	7.1169	7.0593	7.1311
Gain (dB)	5.721	5.9487	5.8564	5.8607	5.9021	5.8807	5.9688	6.0848	5.9094	5.9407	6.1092
Efficiency (dB)	-1.1626	-1.0492	-1.0658	-1.1272	-1.1689	-1.1221	-1.079	-1.0902	-1.2074	-1.1186	-1.0219
Efficiency (%)	76.5146	78.5383	78.2377	77.14	76.403	77.2303	78.0013	77.8003	75.7282	77.2928	79.0341

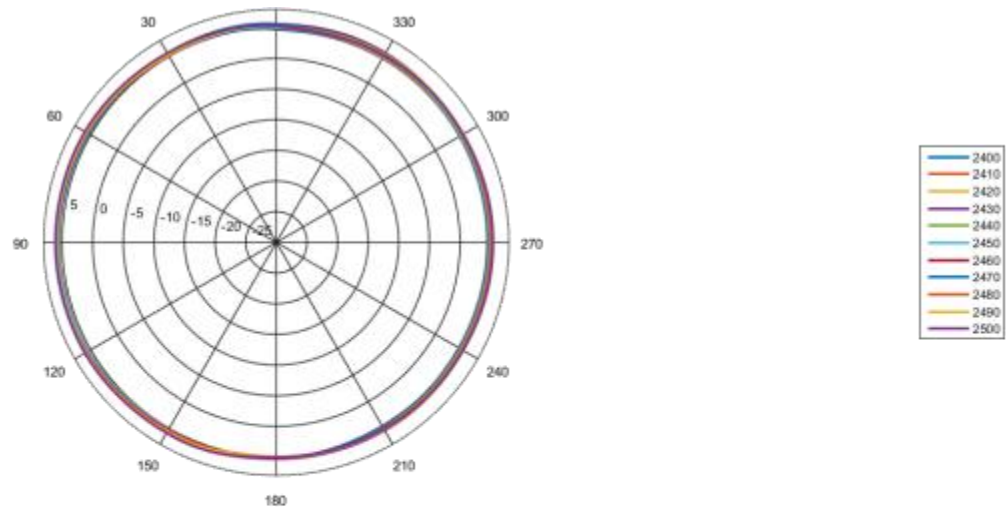


phi90°



Frequency (MHz)	Max (dB)	MaxDir	Min (dB)	MinDir deg	Max-Min (dB)	Roundness (dB)	EW_3dB (deg)	EW_center (deg)	EW_10dB (deg)	F2B_0 (dB)	F2B_30 (dB)	F2B_XFS_30 (dB)	F2B_90
2400	5.5946	92	-35.7298	-180	41.3244	20.6622	19.2417	92.5395	33.3412	1.4676	1.0067	1.0067	
2410	5.7037	92	-36.2961	-180	41.9998	20.6999	19.0202	92.1224	33.1963	1.3276	0.9210	0.9210	
2420	5.6043	92	-36.6855	-180	42.2680	21.1349	18.9182	91.7548	33.0867	1.0353	0.6416	0.6416	
2430	5.5619	90	-36.5731	-180	42.1350	21.0675	18.6000	91.2854	32.7255	0.6661	0.5320	0.5320	
2440	5.6561	90	-36.2578	-180	41.9136	20.9569	18.3112	90.9253	32.2416	0.7757	0.7017	0.7017	
2450	5.7723	90	-36.2639	-180	42.8363	21.0181	18.3923	90.7813	32.2814	0.7879	0.7440	0.7440	
2460	5.9522	90	-36.7357	-180	42.6879	21.3430	18.5876	90.6750	32.5915	0.8312	0.8312	0.8312	
2470	6.0847	90	-37.4053	-180	43.5350	21.7675	18.7923	90.5963	32.9968	0.9665	0.9665	0.9665	
2480	5.8798	90	-38.3347	-180	44.2145	22.1073	19.2700	90.5102	33.7795	0.7479	0.7479	0.7479	
2490	5.9015	90	-38.9696	-180	44.7700	22.3854	19.7019	90.4338	34.5197	0.5312	0.5312	0.5312	
2500	6.0535	90	-39.0185	-180	45.0720	22.5300	19.8094	90.2821	34.8251	0.6626	0.6626	0.6626	

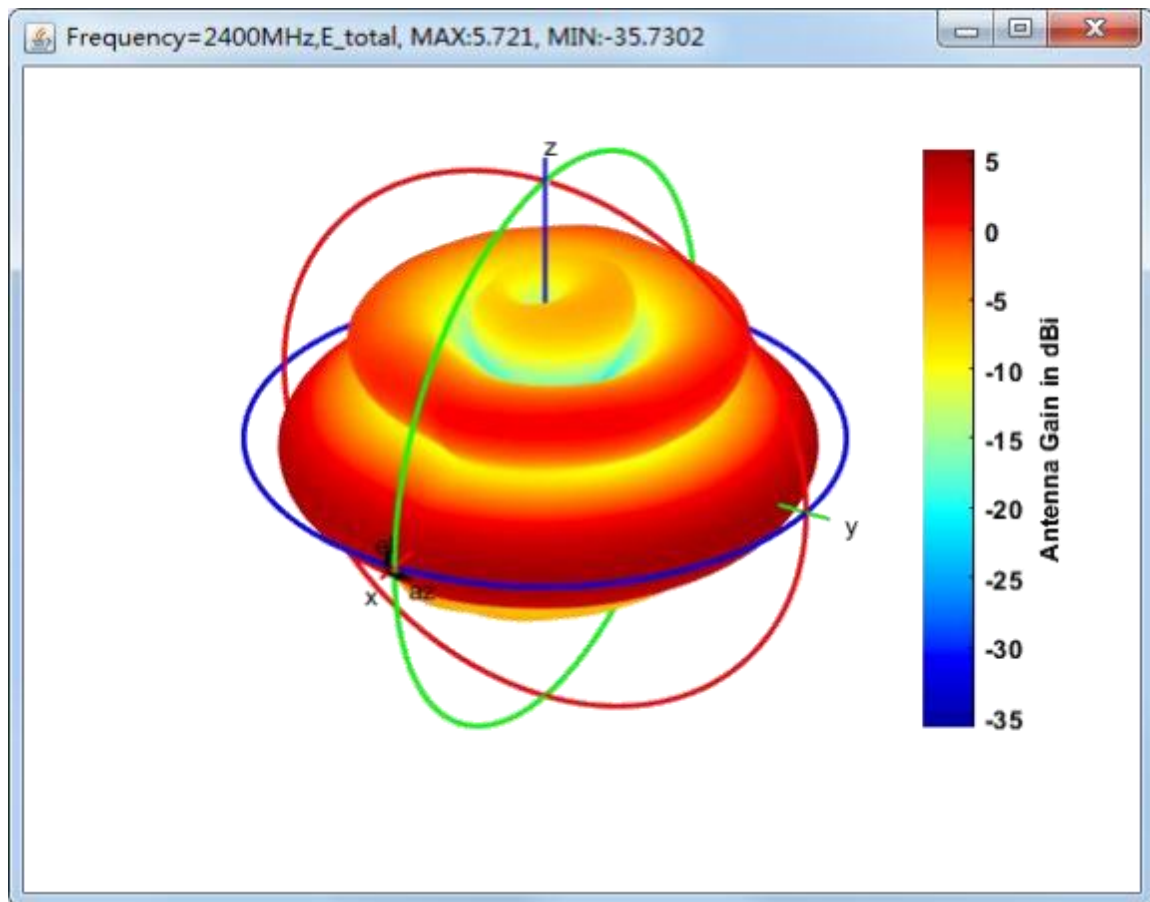
theta90°

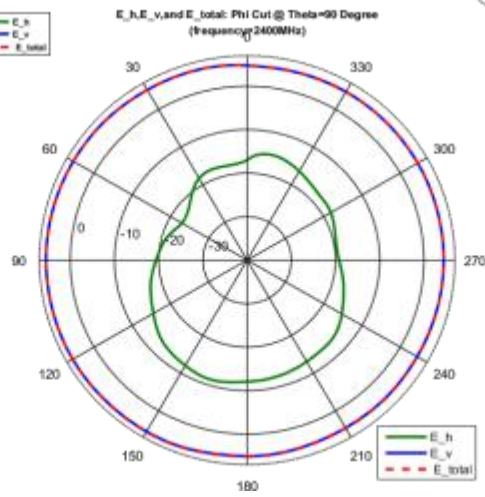
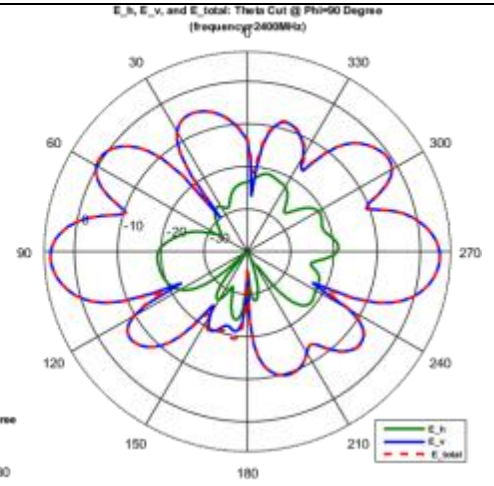
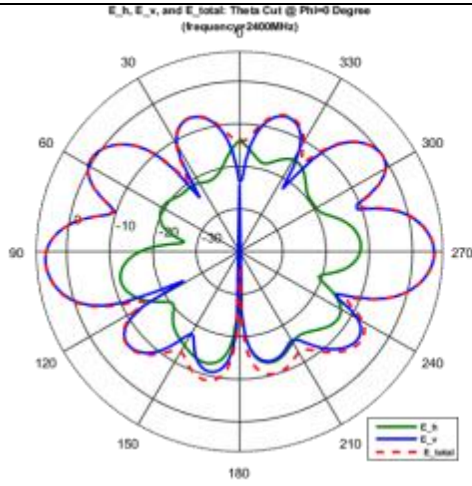


Frequency (MHz)	Max (dB)	MaxDir	Min (dB)	MinDir deg	Max-Min (dB)	Roundness (dB)	Avg Gain (dB)	EW_3dB (deg)	EW_center (deg)	EW_10dB (deg)	F2B_0 (dB)	F2B_30 (dB)	F2B_XFS_30
2400	5.5885	120	4.4149	-116.0000	1.1736	0.5805	5.0197	NaN	NaN	NaN	0.9914	0.8952	
2410	6.8124	158	4.6342	-116.0000	1.1783	0.5891	5.2240	NaN	NaN	NaN	1.0140	0.4118	
2420	5.7355	168	4.8171	-58	0.9184	0.4592	5.2775	NaN	NaN	NaN	0.7511	0.1614	
2430	5.7217	14	4.8478	-58.0000	0.8738	0.4369	5.2905	NaN	NaN	NaN	0.4715	0.1521	
2440	5.7815	12	4.8150	-64	0.9665	0.4833	5.2937	NaN	NaN	NaN	0.6026	0.3020	
2450	5.8136	78.0000	4.9360	-72	0.8777	0.4380	5.3781	NaN	NaN	NaN	0.8421	0.6286	
2460	5.9688	88	5.0739	-74	0.8949	0.4474	5.4878	NaN	NaN	NaN	0.8629	0.6696	
2470	6.0848	88	5.0589	-112	1.0279	0.5140	5.4984	NaN	NaN	NaN	0.8654	0.9684	
2480	5.9094	114	4.9523	176	0.9572	0.4786	5.3651	NaN	NaN	NaN	0.8206	0.5236	
2490	5.9487	116.0000	5.0438	176	0.8968	0.4484	5.4522	NaN	NaN	NaN	0.8708	0.5181	
2500	6.1092	88	4.9844	-162	1.1248	0.5624	5.5373	NaN	NaN	NaN	0.9874	0.7184	

## ➤ Gain (dBi)

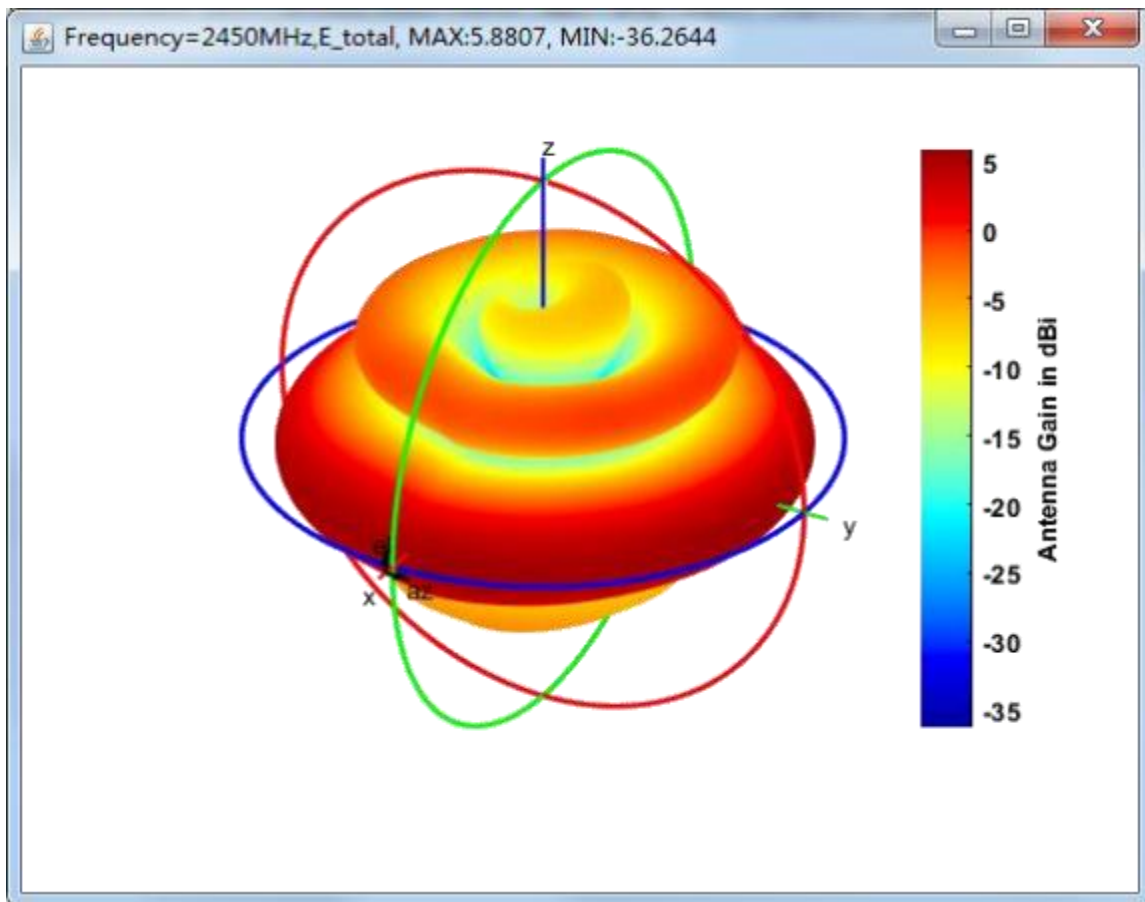
Frequency = 2400 MHz



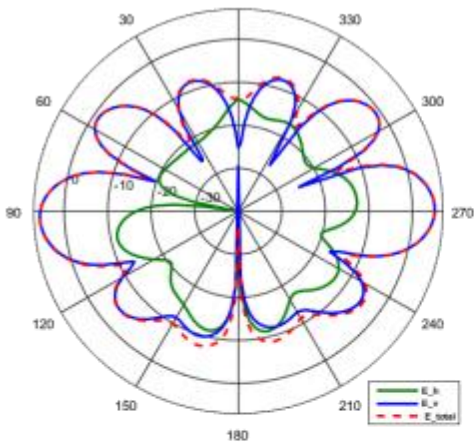


## ➤ Gain (dBi)

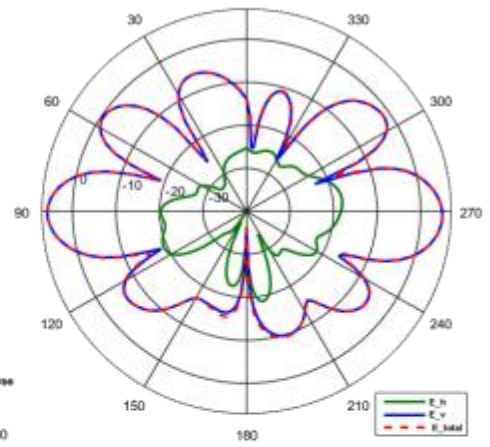
Frequency = 2450 MHz



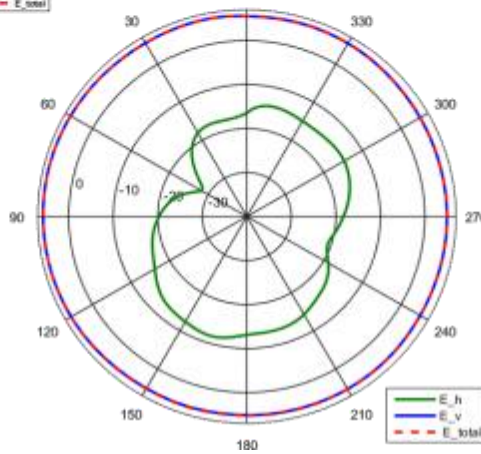
E<sub>h</sub>, E<sub>v</sub>, and E<sub>total</sub>: Theta Cut @ Phi=0 Degree  
(frequency 2450MHz)



E<sub>h</sub>, E<sub>v</sub>, and E<sub>total</sub>: Theta Cut @ Phi=90 Degree  
(frequency 2450MHz)



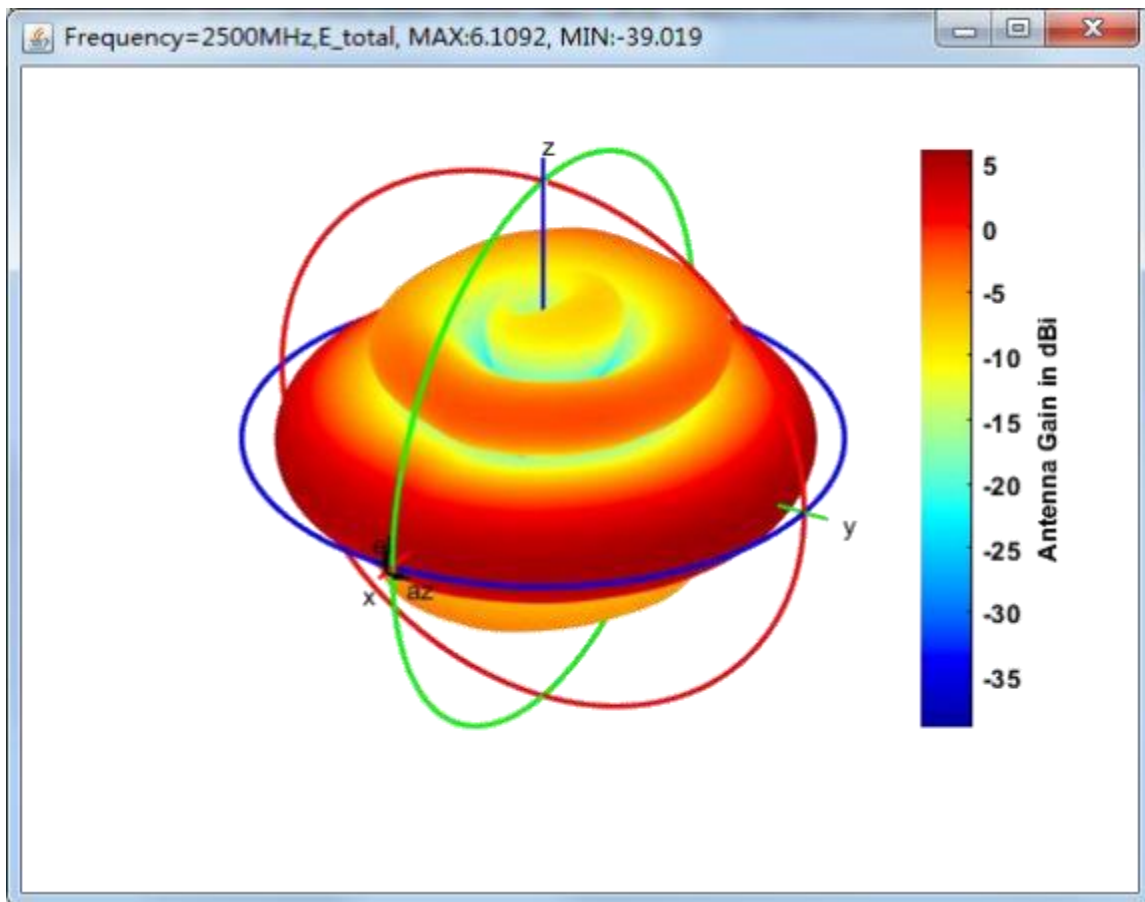
E<sub>h</sub>, E<sub>v</sub>, and E<sub>total</sub>: Phi Cut @ Theta=90 Degree  
(frequency 2450MHz)

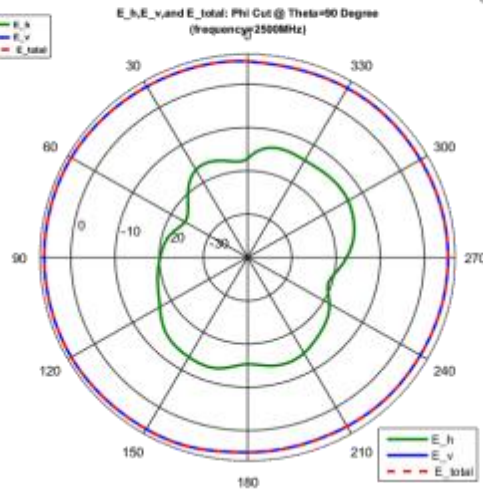
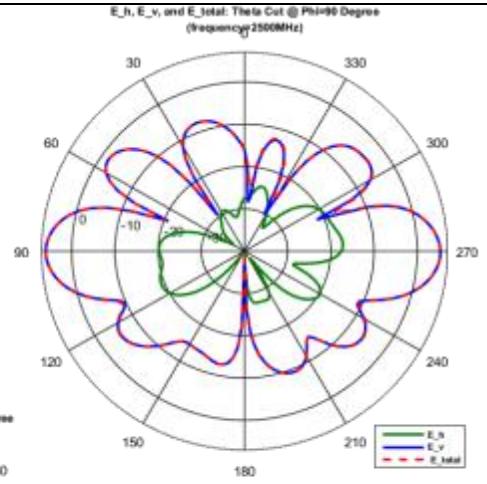
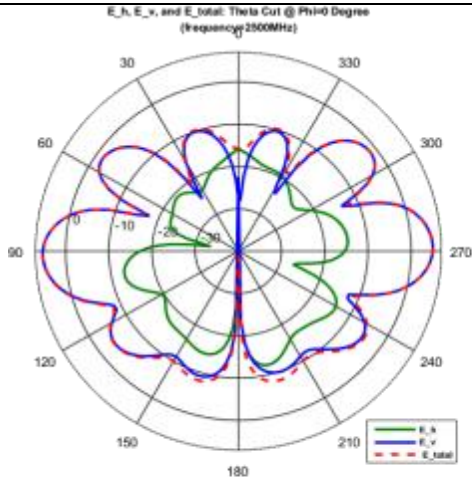




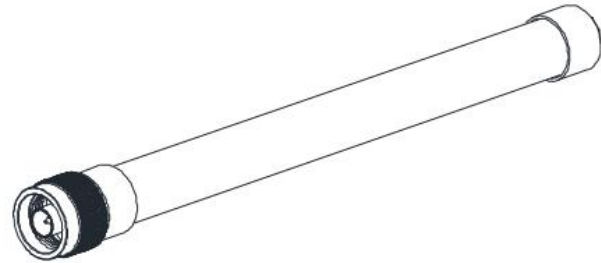
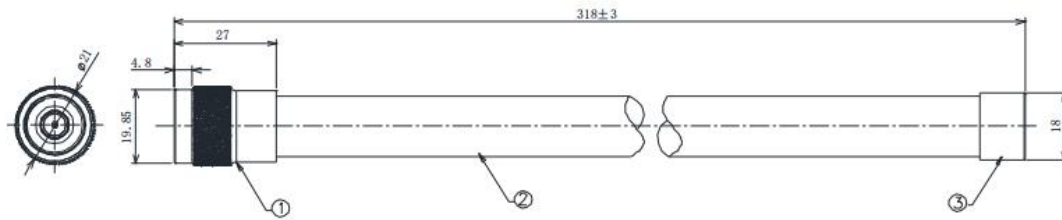
## ➤ Gain (dBi)

Frequency = 2500 MHz





### Dimension



#### SPECIFICATION

1. Frequency Range: 2.4~2.5GHz
2. Impedance: 50Ω
3. VSWR: ≤2.0
4. Polarization: Vertical
5. Radiation: Omni
6. Gain: 6dBi

③	CAP	Aluminium: H8*φ18mm	1PCS	
②	Fiberglass tube	L150*φ16mm: White	1PCS	
①	CONNECTOR	N-TYPE PLUG, FOR ANTENNA	1PCS	
NO	PARTNAME	DESCRIPTION	Q'TY	Part P/NO