

Feature

- Base station antennay
- N-Type Plug
- Plastic Case of GRAY
- RoHS compliance

Application

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

Description

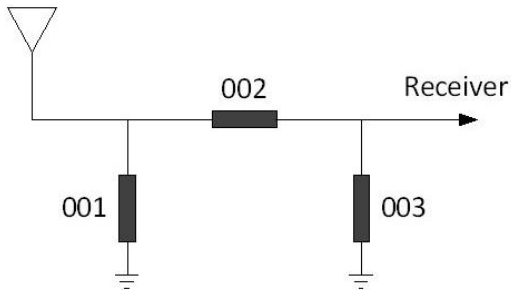
The antenna for 2.4G Directional Antenna applications .
It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

General Data

Product Name	DR2G14-90D
Frequency Range	2.4~2.5GHz
V.S.W.R	≤2.5
Gain (dBi)	≤14dBi
Polarization	Horizontal,Vertical
BW_3dB (deg)	68,12
Term of validity	One year
Storage Temp	-10℃~+70℃
Operating Temperature	-10℃~+60℃
Connector	N-TYPE
Impedance with Matching	50 Ω
Dimension	L500H132.5B62.34(mm)

Typical Electrical Characteristics

- Recommend Matching Circuit



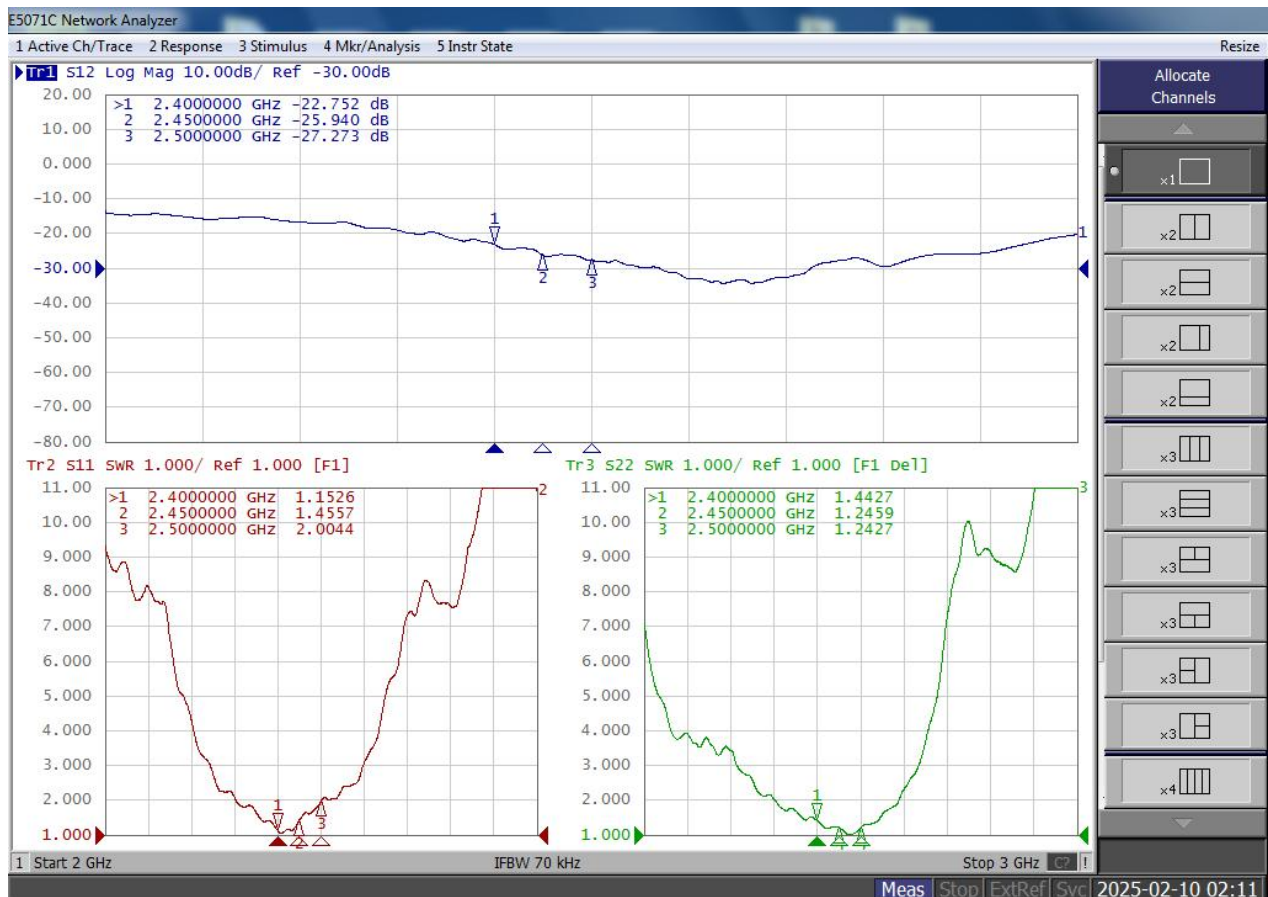
Reference:

001=(N/A)

002=0Ω

003=(N/A)

- Return loss、VSWR& Smith chart



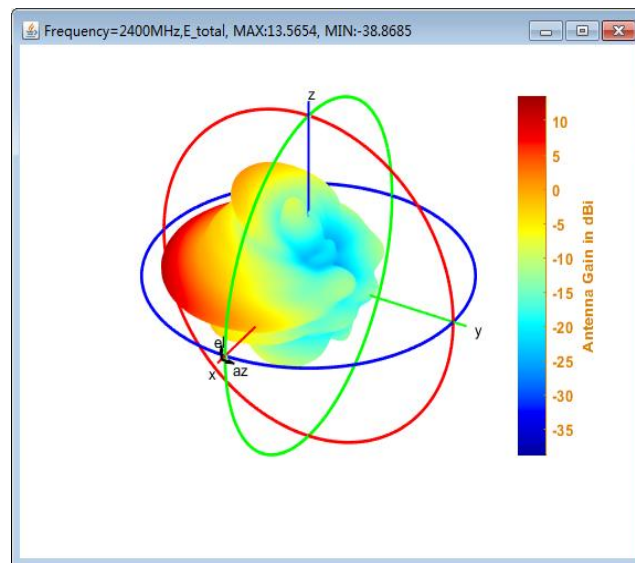
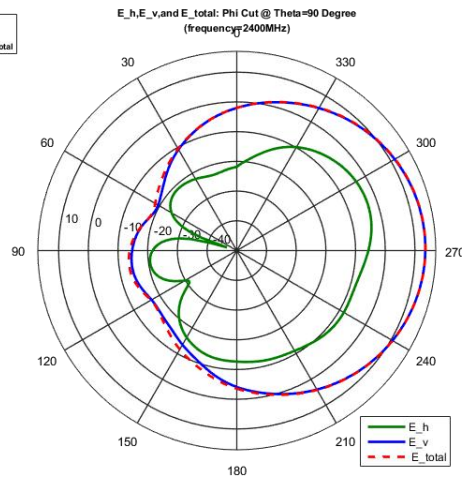
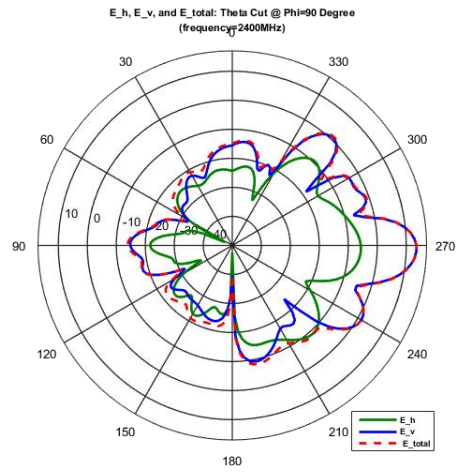
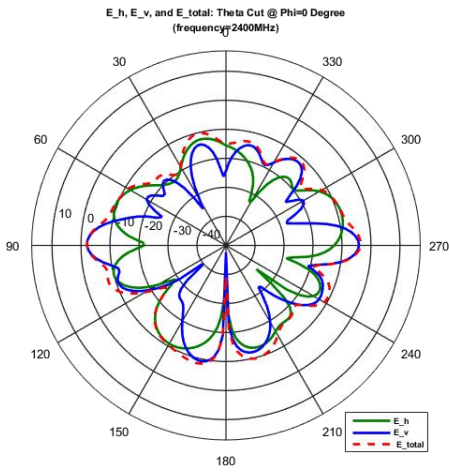
2G1 Frequency Total Data

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(dB)	Efficiency(%)	phi90° BW_3dB(deg)	theta90° BW_3dB (deg)
2400	15.19	13.5654	-1.6246	68.792	13.4003	66.29
2410	15.1982	13.533	-1.6651	68.1531	13.3799	66.4486
2420	15.2068	13.6117	-1.5952	69.2604	13.3723	66.6857
2430	15.2178	13.7163	-1.5015	70.7694	13.3424	67.0643
2440	15.2361	13.5329	-1.7032	67.5584	13.3261	64.0493
2450	15.2584	13.6187	-1.6396	68.5545	13.2661	67.4031
2460	15.3132	13.7161	-1.5971	69.229	13.2035	67.3908
2470	15.3731	13.6808	-1.6923	67.728	13.1198	67.1475
2480	15.4454	13.6073	-1.8381	65.4921	13.0171	66.7632
2490	15.5101	13.7604	-1.7497	66.8386	12.9062	66.3284
2500	15.5669	13.8054	-1.7615	66.6579	12.7887	65.8389

2G2 Frequency Total Data

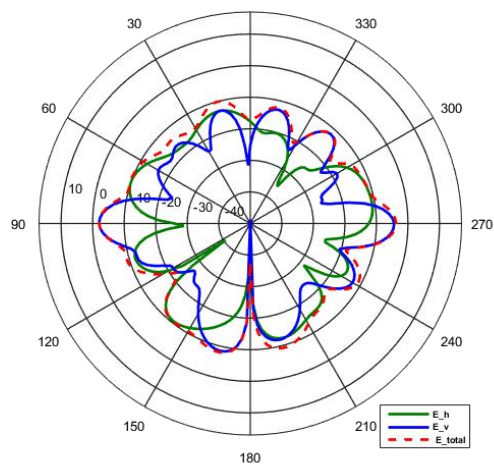
Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(dB)	Efficiency(%)	phi90° BW_3dB(deg)	theta90° BW_3dB (deg)
2400	16.0175	14.3551	-1.6624	68.1965	12.9245	60.2989
2410	16.0562	14.3115	-1.7447	66.9153	12.8807	60.0565
2420	16.0787	14.3625	-1.7162	67.3571	12.8443	59.91
2430	16.1049	14.438	-1.6669	68.125	12.7995	59.7094
2440	16.1263	14.223	-1.9033	64.5169	12.7283	59.609
2450	16.1367	14.2525	-1.8842	64.8008	12.6893	59.4437
2460	16.1559	14.3042	-1.8517	65.2878	12.6511	59.3061
2470	16.178	14.2445	-1.9335	64.0693	12.6099	59.1642
2480	16.1969	14.0508	-2.1462	61.0072	12.5919	58.9726
2490	16.2149	14.1236	-2.0912	61.7842	12.5722	58.7041
2500	16.2312	14.1524	-2.0788	61.9606	12.5514	58.5466

2G1 2D&3D test pattern

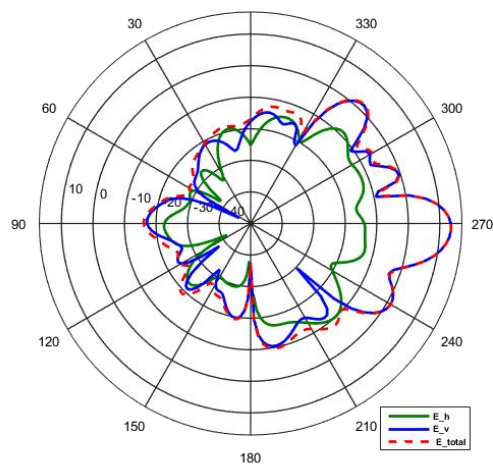


2450MHz

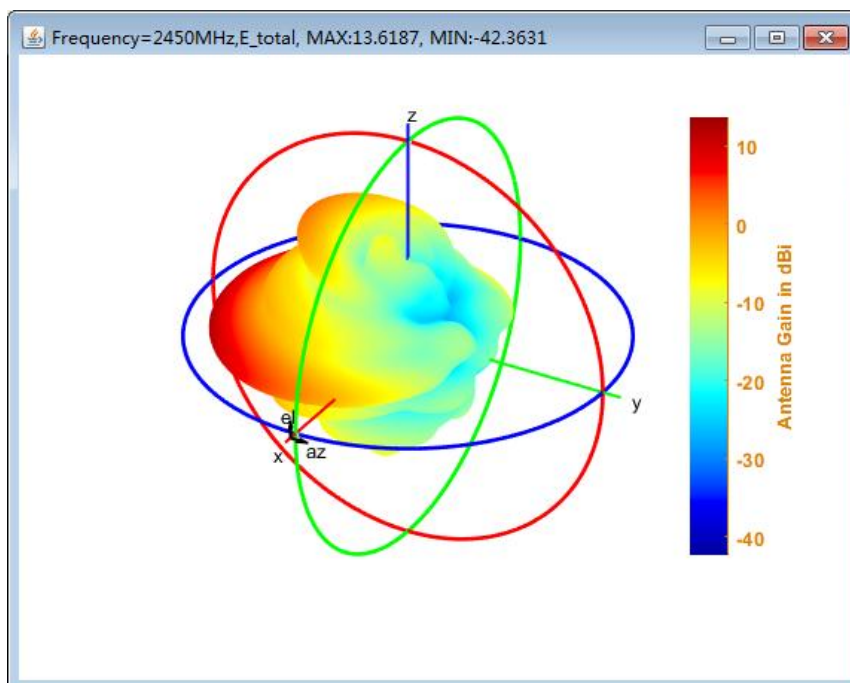
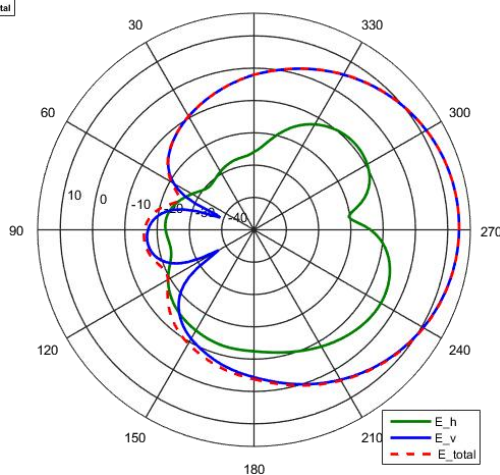
E_h, E_v, and E_total: Theta Cut @ Phi=0 Degree
(frequency:2450MHz)



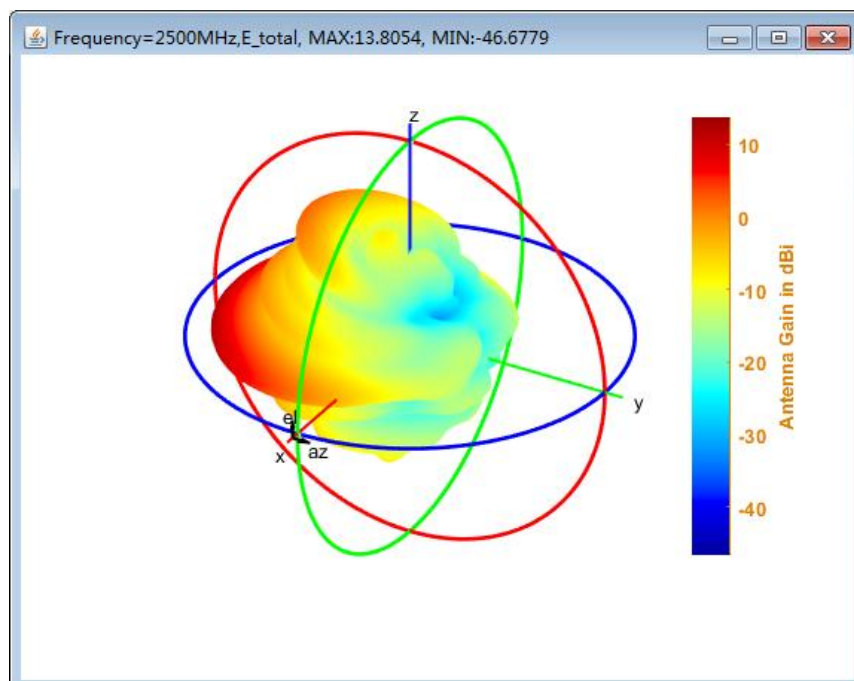
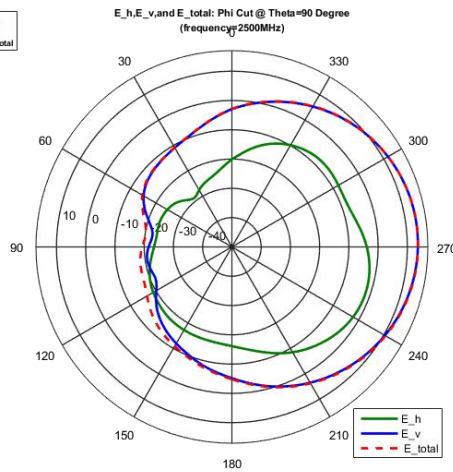
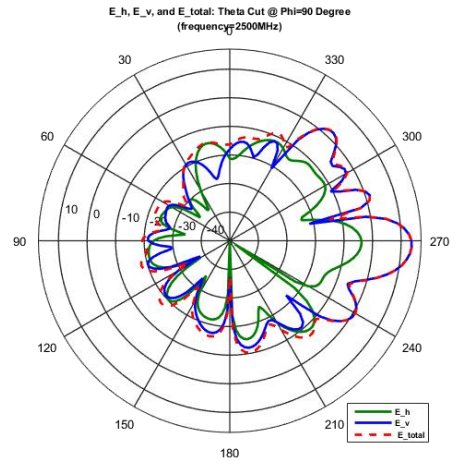
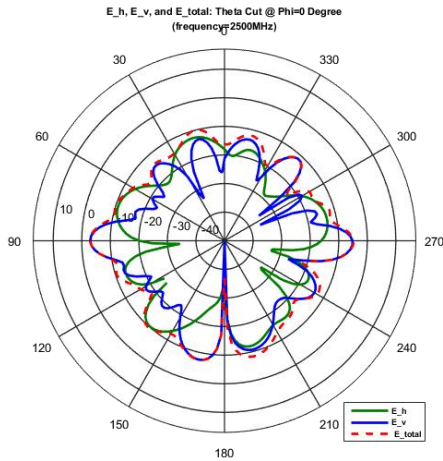
E_h, E_v, and E_total: Theta Cut @ Phi=90 Degree
(frequency:2450MHz)



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(frequency:2450MHz)



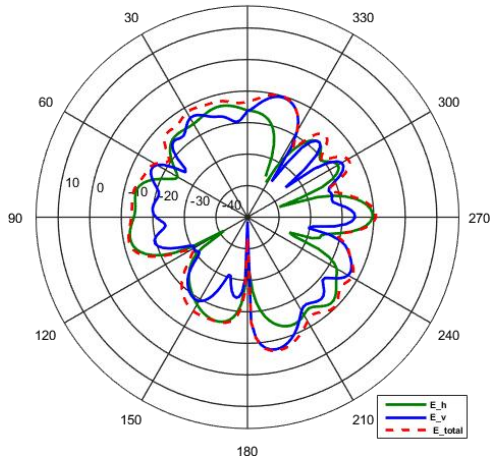
2500MHz



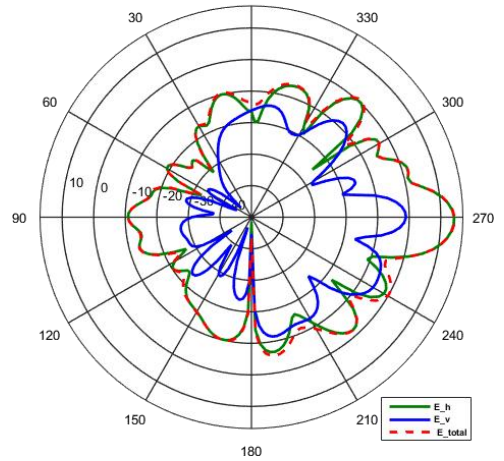
2G2 2D&3D test pattern

2400MHz

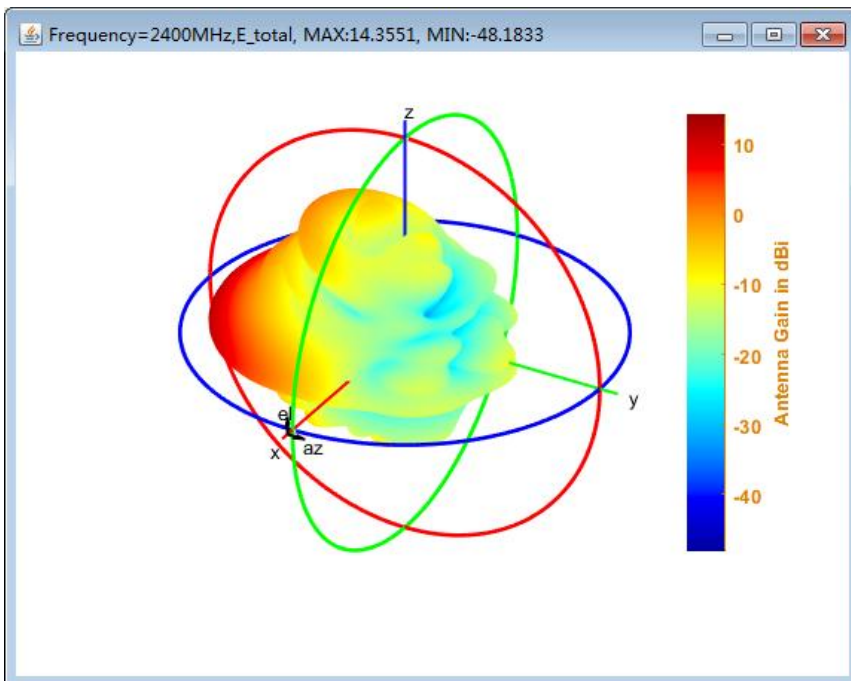
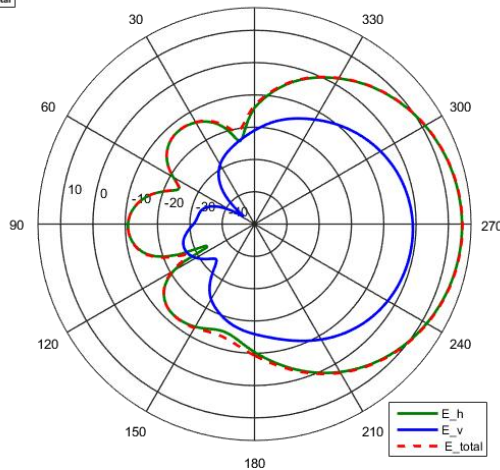
E_h, E_v, and E_total: Theta Cut @ Phi=0 Degree (frequency=2400MHz)



E_h, E_v, and E_total: Theta Cut @ Phi=90 Degree (frequency=2400MHz)

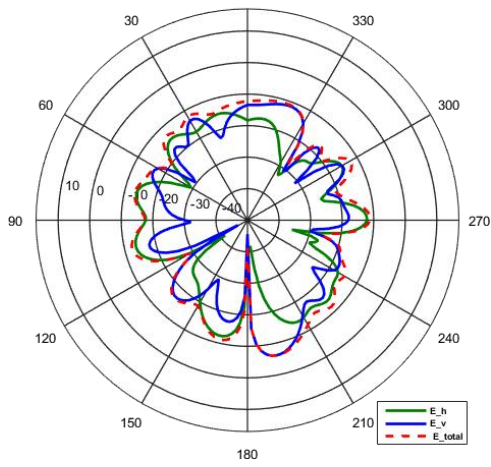


E_h, E_v, and E_total: Phi Cut @ Theta=90 Degree (frequency=2400MHz)

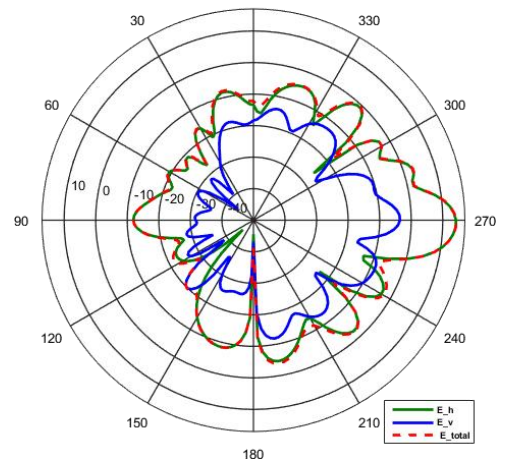


2450MHz

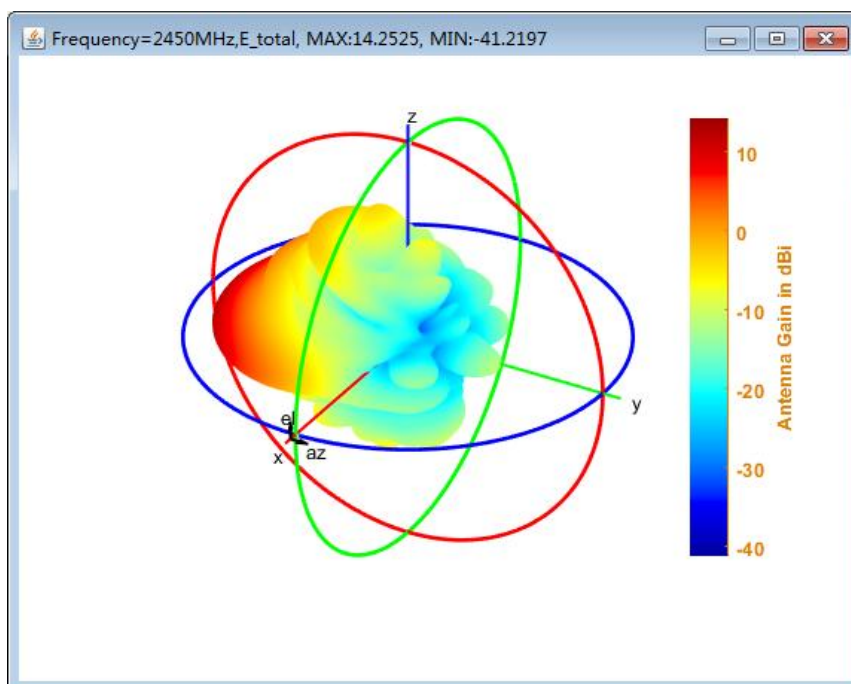
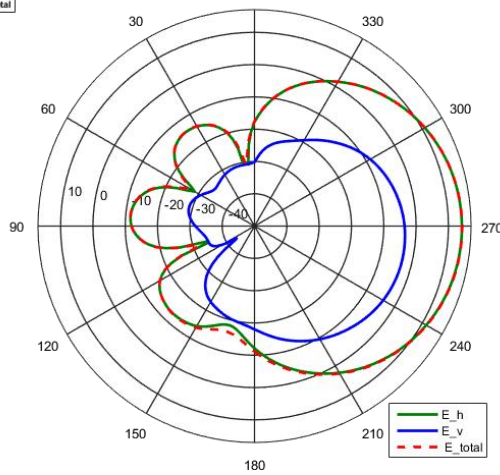
E_h, E_v, and E_total: Theta Cut @ Phi=0 Degree
(frequency=2450MHz)



E_h, E_v, and E_total: Theta Cut @ Phi=90 Degree
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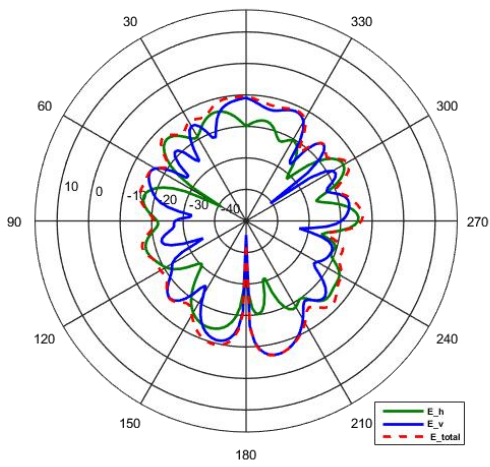


E_h, E_v, and E_total: Phi Cut @ Theta=90 Degree
(frequency=2450MHz)

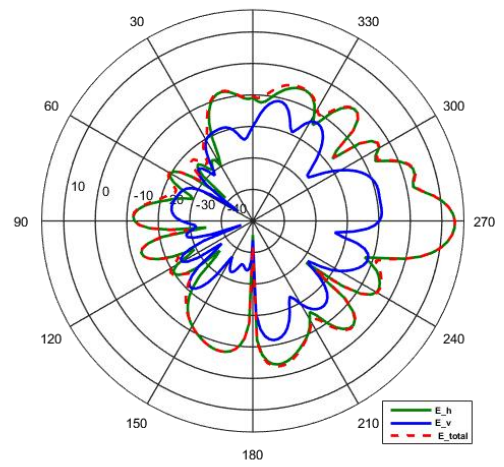


2500MHz

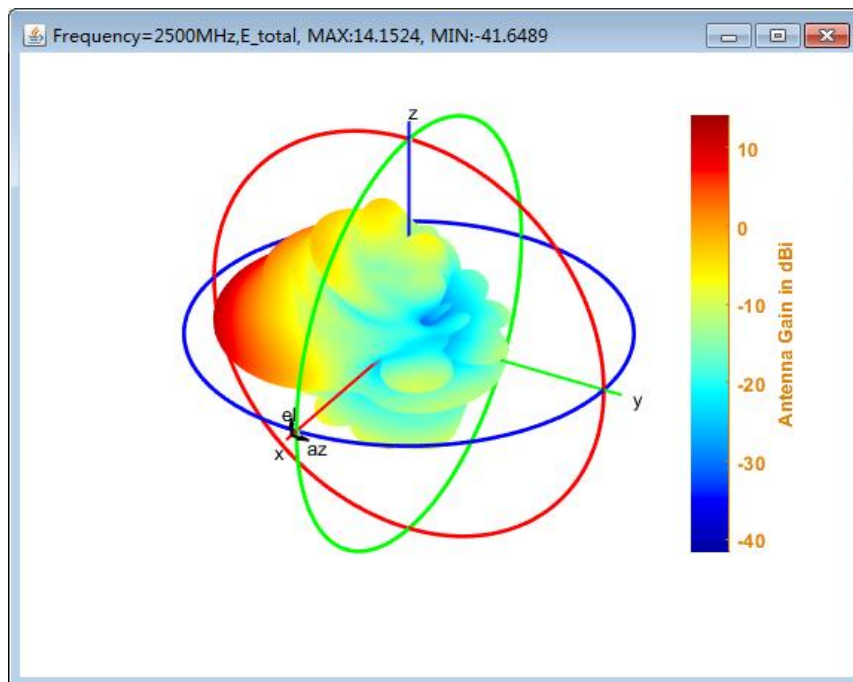
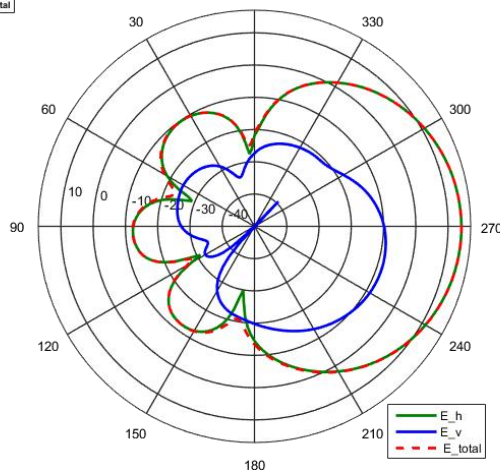
E_h, E_v, and E_total: Theta Cut @ Phi=0 Degree
(frequency=2500MHz)



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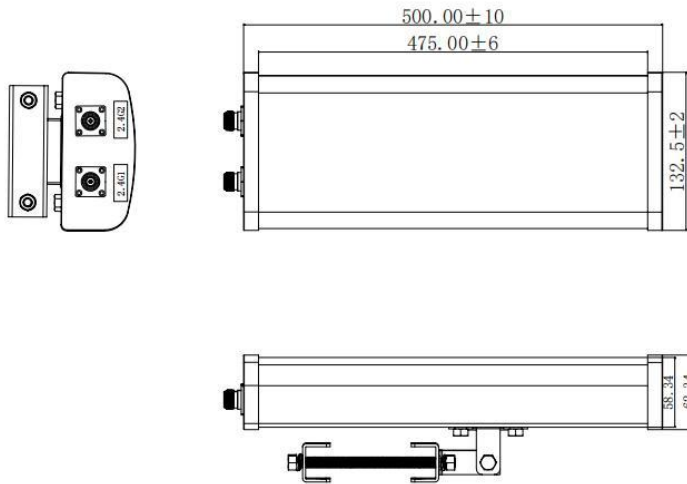


E_h, E_v, and E_total: Phi Cut @ Theta=90 Degree
(frequency=2500MHz)



Dimension

REV	DATE	DESCRIPTION
A0	2/10-2025	New Issue



SPECIFICATION

1. Frequency Range: 2.4~2.5GHz*2
2. Impedance: 50 Ω
3. VSWR: ≤2.5
4. Radlation: Omni
5. Gain: ≤14dBi