

天线规格书

Antenna Specification

制造商 Manufactory:	Suzhou Huimi Communication Technology Co.,Ltd
天线类型 Antenna Type:	PIFA
型号 Model Name:	D530
品牌 Brand Name:	Huimi
频率范围 Frequency range:	2400-2500MHz, 5150-5850MHz
尺寸 Dimensions:	Main:22.76*17.17mm AUX:28.9*21.94mm

最大增益
Max Gain:

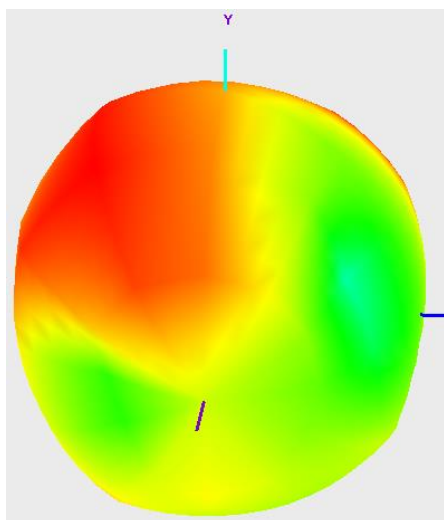
Antenna	2.4GHz	5GHz
Main	2.83dBi	3.28dBi
AUX	2.17dBi	2.5dBi

1. Gain and Efficiency

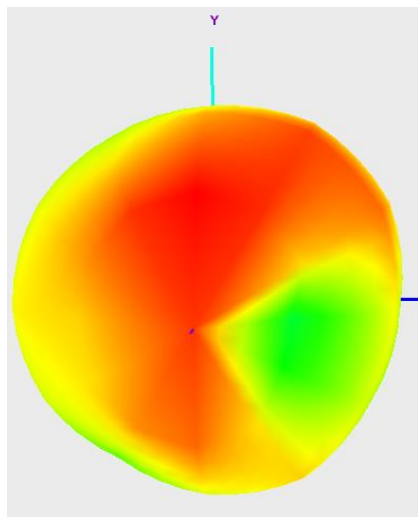
Frequency	Main antenna		AUX antenna	
	Gain (dBi)	Efficiency (%)	Gain (dBi)	Efficiency (%)
2400	1.98	40.74	0.31	40.12
2410	2.19	41.55	0.32	39.27
2420	2.16	40.67	0.81	42.1
2430	2.83	45.58	1.15	41.85
2440	2.64	45.61	1.21	39.97
2450	2.34	41.9	1.64	43.26
2460	2.52	45.98	1.91	43.39
2470	2.26	43.66	1.84	41.32
2480	2.28	43.76	2.16	42.61
2490	2.45	44.93	2.03	39.64
2500	2.56	44.54	2.17	41.32
5150	3.25	60.73	2.14	43.8
5200	3.28	53.74	1.7	41.23
5250	1.84	41.48	1.51	40.22
5300	0.67	36.32	1.38	40
5350	0.3	39.27	1.58	42.8
5400	0.38	39.16	2.5	42.21
5450	1.29	41.48	0.07	31.26
5500	0.96	30.97	-0.06	31.91
5550	0.03	29.38	0.02	36.87
5600	0.7	39.66	0.36	42.7
5650	1.42	46.81	0.65	36.92
5700	1.3	48.59	1.31	40.24
5750	1.53	45.31	0.87	36.55
5800	1.44	41.39	1.04	39.4

2. 3D Pattern

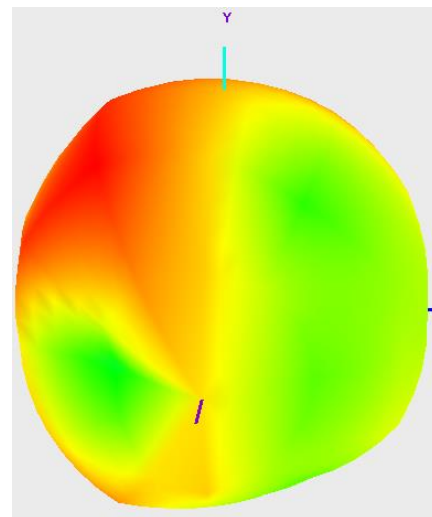
3D Pattern for Main Antenna
2400MHz



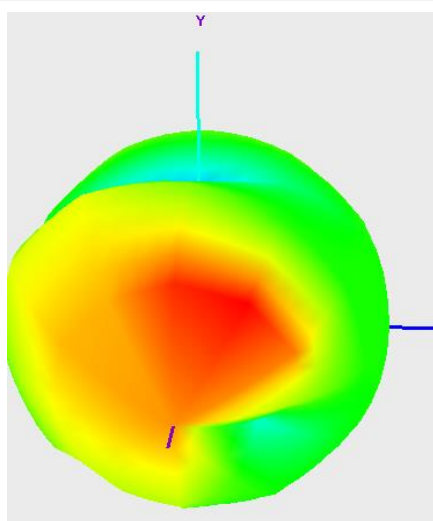
2450MHz



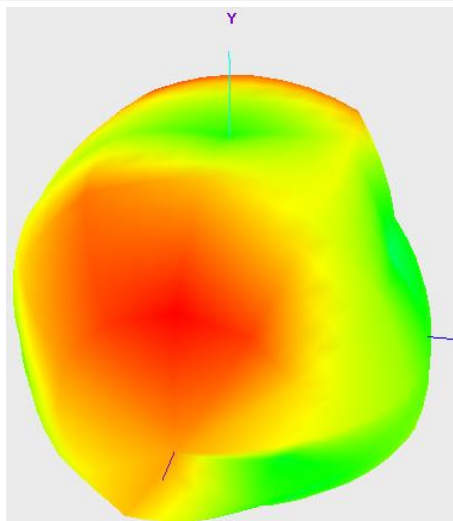
2500MHz



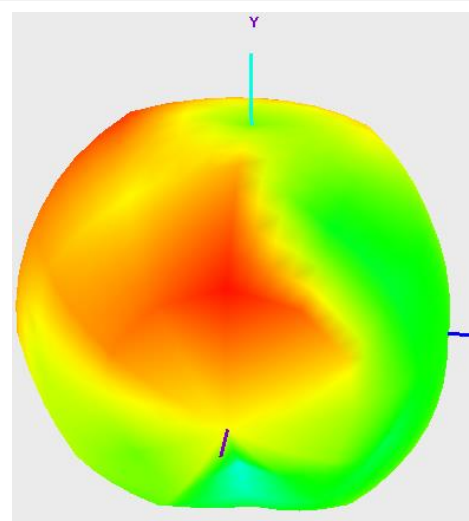
5150MHz



5500MHz

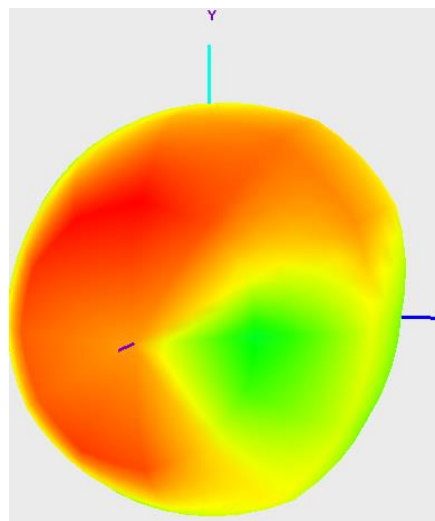


5850MHz

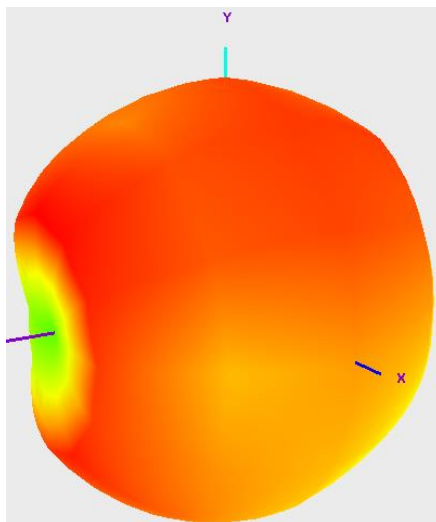


3D Pattern for AUX Antenna

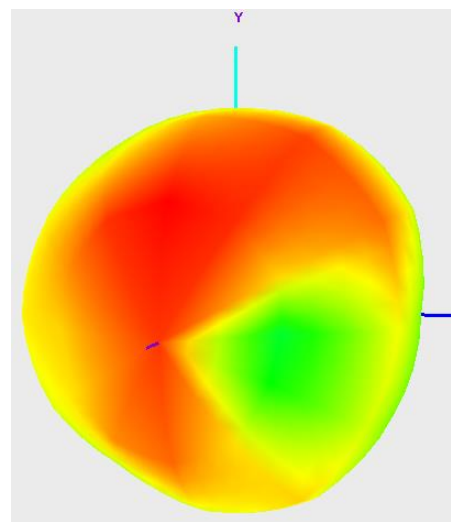
2400MHz



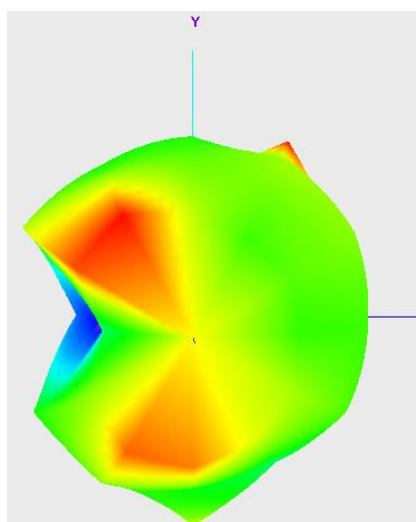
2450MHz



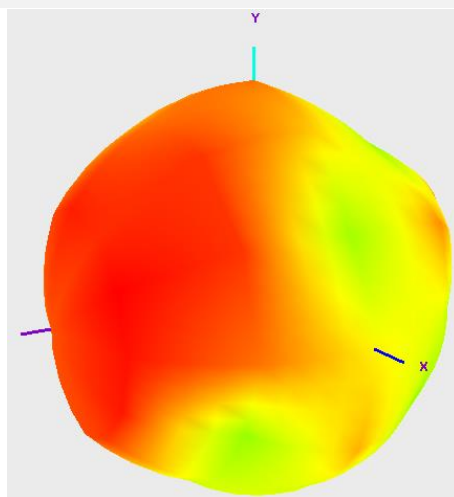
2500MHz



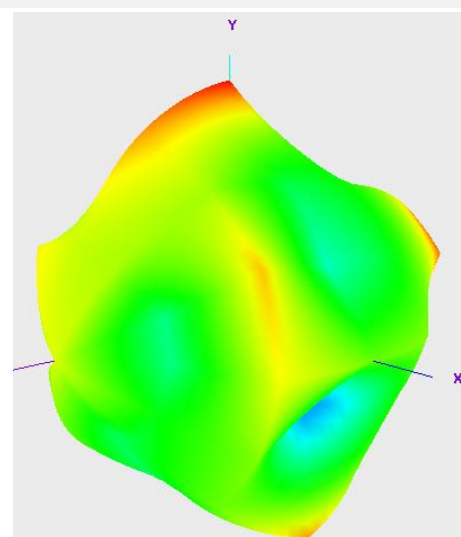
5150MHz



5500MHz



5850MHz



3. 1D Radiation Pattern

Main Antenna 2400-2500MHz

PHI=0

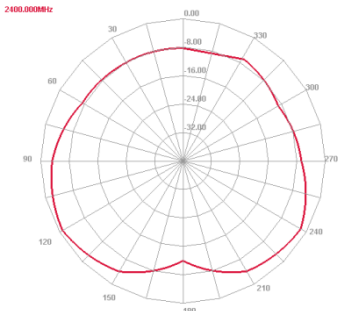
PHI=90

THETA=90

2400
MHz

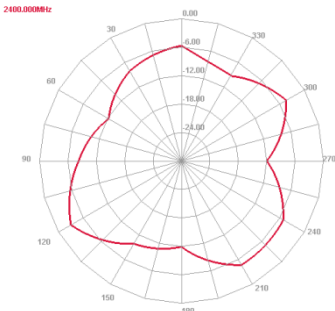
Horizontal

2400.000MHz



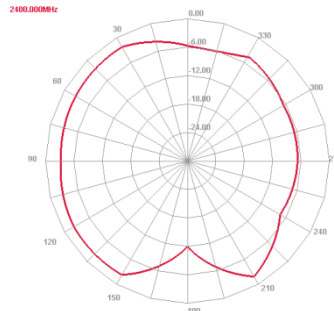
E1 Face

2400.000MHz



E2 Face

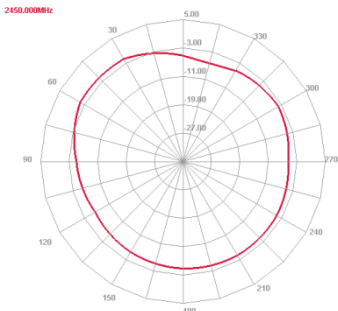
2400.000MHz



2450
MHz

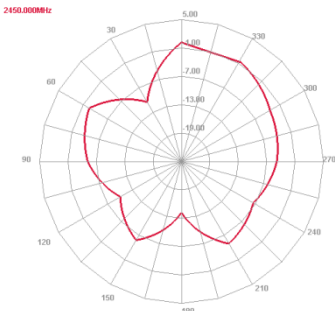
Horizontal

2450.000MHz



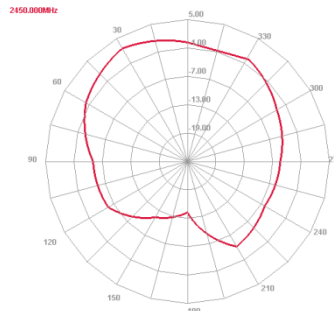
E1 Face

2450.000MHz



E2 Face

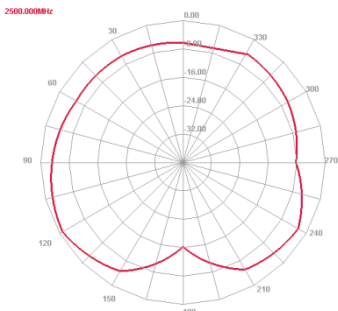
2450.000MHz



2500
MHz

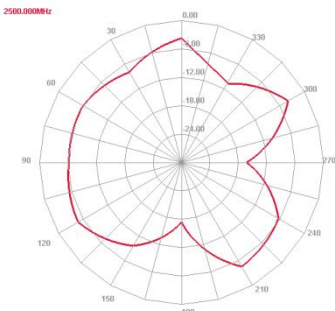
Horizontal

2500.000MHz



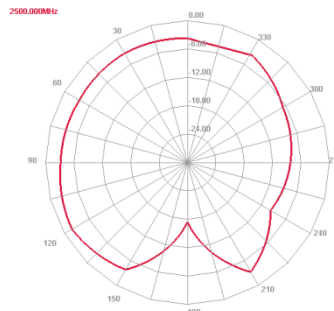
E1 Face

2500.000MHz



E2 Face

2500.000MHz



Main Antenna 5150-5850MHz

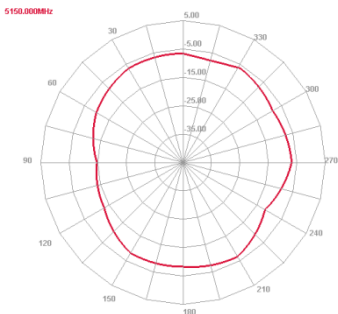
PHI=0

PHI=90

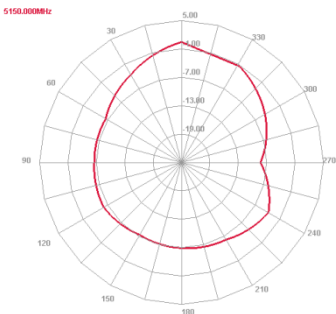
THETA=90

5150
MHz

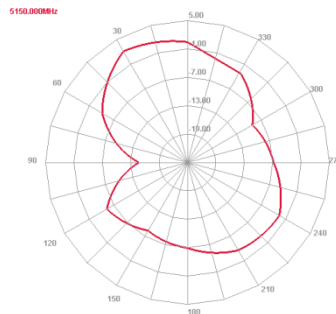
Horizontal
5150.000MHz



E1 Face
5150.000MHz

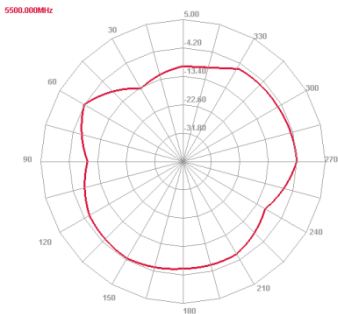


E2 Face
5150.000MHz

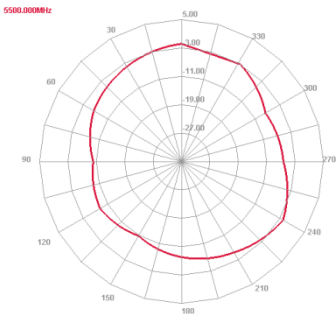


5500
MHz

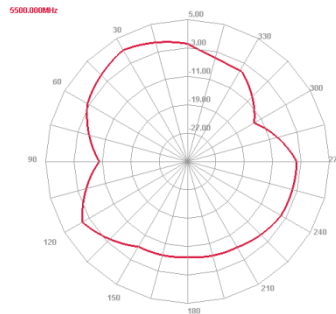
Horizontal
5500.000MHz



E1 Face
5500.000MHz

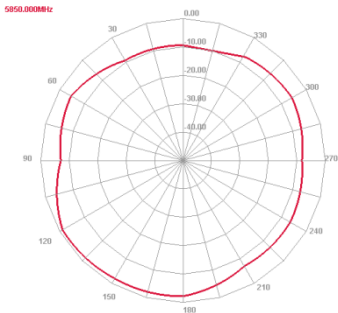


E2 Face
5500.000MHz

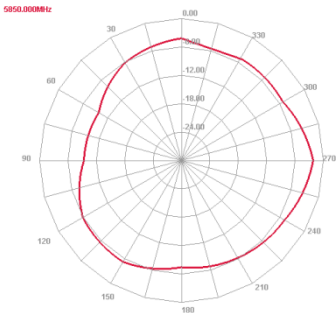


5850
MHz

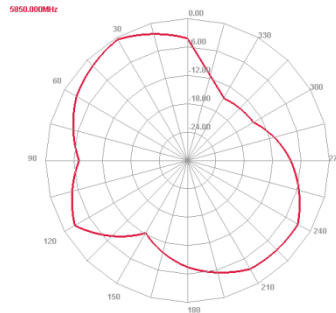
Horizontal
5850.000MHz



E1 Face
5850.000MHz



E2 Face
5850.000MHz



AUX Antenna 2400-2500MHz

PHI=0

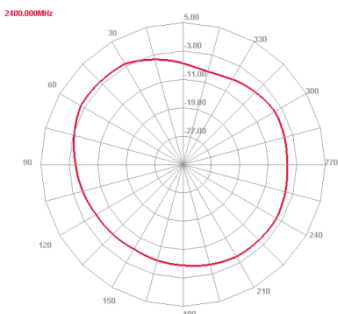
PHI=90

THETA=90

2400
MHz

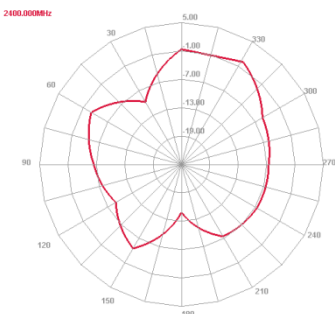
Horizontal

2400.000MHz



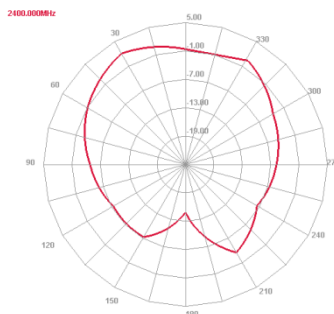
E1 Face

2400.000MHz



E2 Face

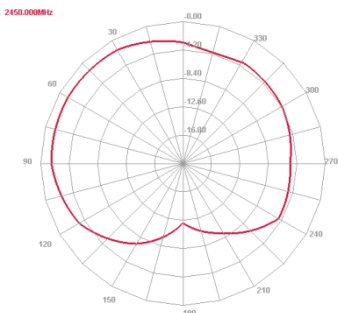
2400.000MHz



2450
MHz

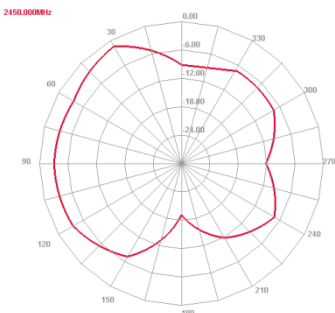
Horizontal

2450.000MHz



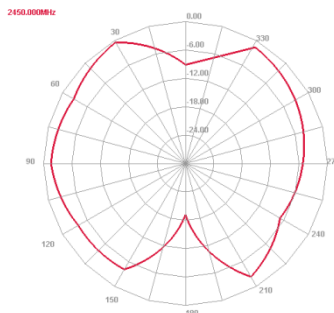
E1 Face

2450.000MHz



E2 Face

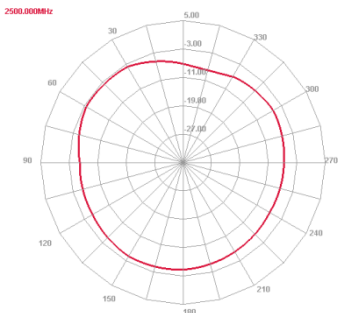
2450.000MHz



2500
MHz

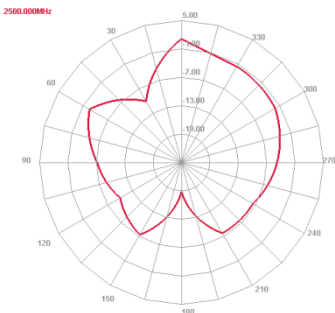
Horizontal

2500.000MHz



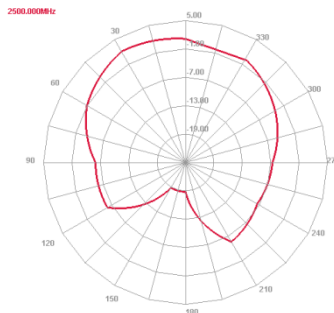
E1 Face

2500.000MHz



E2 Face

2500.000MHz



AUX Antenna 5150-5850MHz

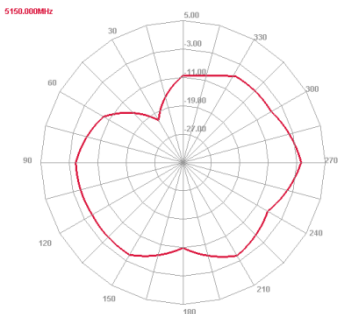
PHI=0

PHI=90

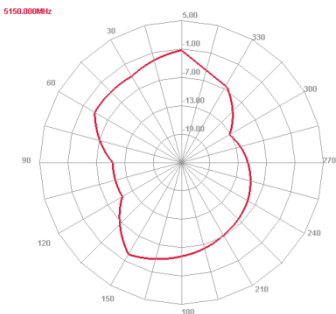
THETA=90

5150
MHz

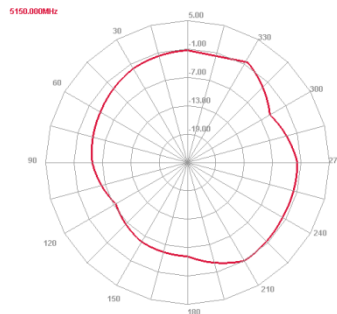
Horizontal
5150.000MHz



E1 Face
5150.000MHz

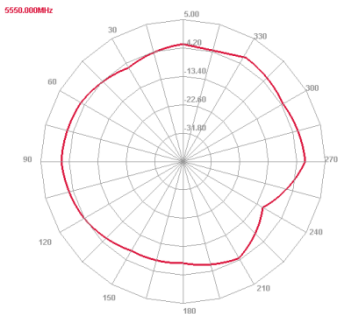


E2 Face
5150.000MHz

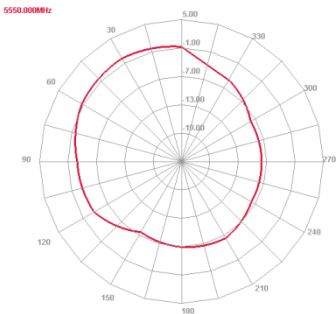


5500
MHz

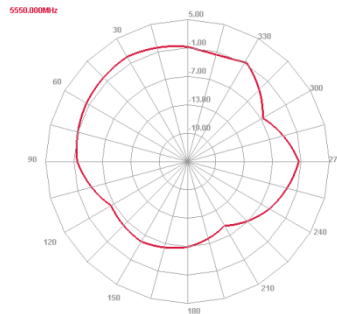
Horizontal
5550.000MHz



E1 Face
5550.000MHz

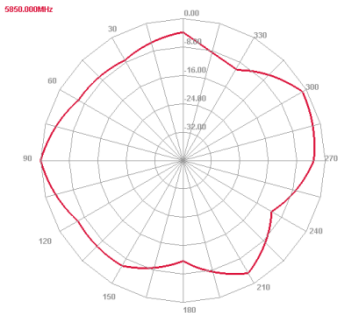


E2 Face
5550.000MHz

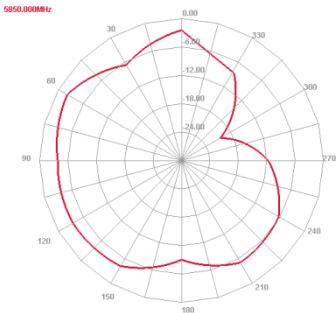


5850
MHz

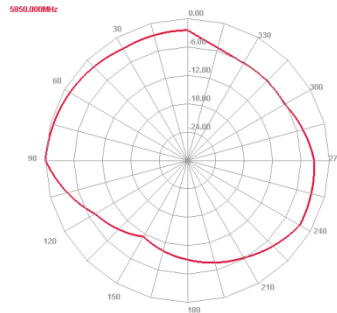
Horizontal
5850.000MHz



E1 Face
5850.000MHz



E2 Face
5850.000MHz



4. Antenna Photo

Main Antenna Photo



AUX Antenna Photo



5. VSWR and Input Impedance

	Main antenna			AUX antenna		
Frequency	VSWR	Input impedance (Ω)	Return Loss(dB)	VSWR	Input impedance (Ω)	Return Loss(dB)
2400MHz	1.25	50	-19.1	1.38	50	-15.94
2500MHz	1.87	50	-10.4	1.59	50	-12.85
5150MHz	2.12	50	-8.9	2.35	50	-7.8
5850MHz	2.06	50	-9.2	2.04	50	-9.3

6. Structural Drawings

