

antenna SPECIFICATION

Product description: 2.4G FPC Antenna

Model number: ANTENNA-2400

Issue Date: 2023-04-23

Note: 2400-2500MHz

Manufacturer: Shenzhen HamyWe Technology Co., Ltd.

Address: Room 308-316, Kaiyilian Building, No. 23, Liuxian 3rd Road,
Bao 'an District, Shenzhen

1、（PRODUCT TECHNICAL SPECIFICATION）

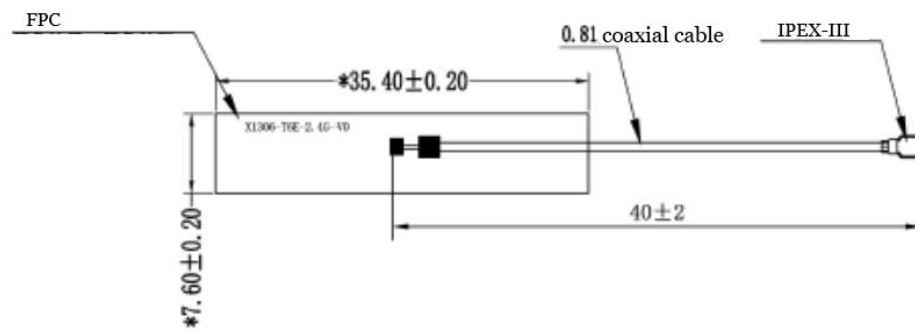
Electrical Specifications	
Frequency Range (MHz)	2400-2500
Input Impendence (Ω)	50
V.S.W.R	≤ 2.2
Gain (dBi)	2
Polarization Type	Vertical
Power Capacity (w)	50
Mechanical Specifications	
Antenna Length (mm)	57mm
Radiator	Cuprum

Connect Type	IPEX-3
Working Temp(°C)	-10~40
Storage Temperature(°C)	-40~85
antenna size	35.4mmx7.6mm
Weight (g)	3

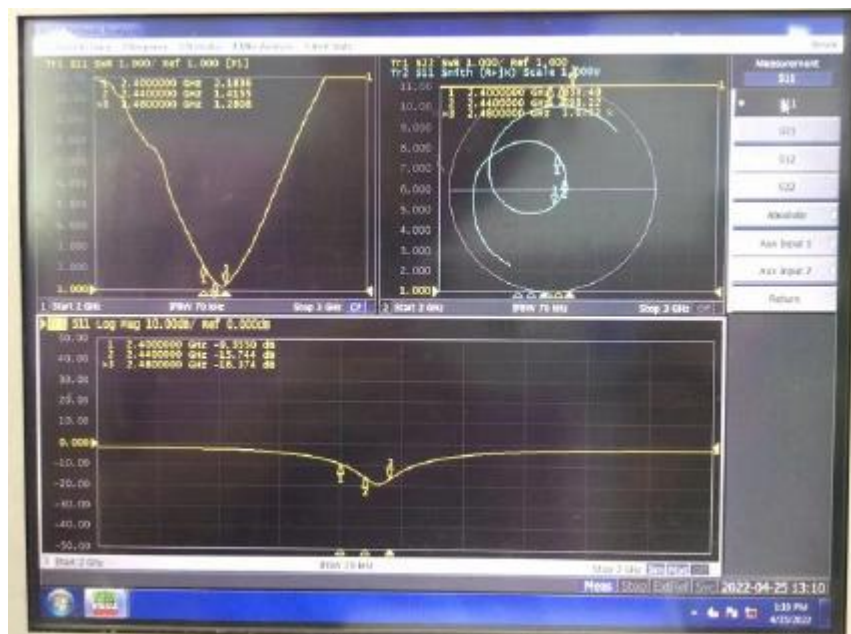
2、PRODUCT PICTURE



3、PRODUCT SPECIFICATION CHART

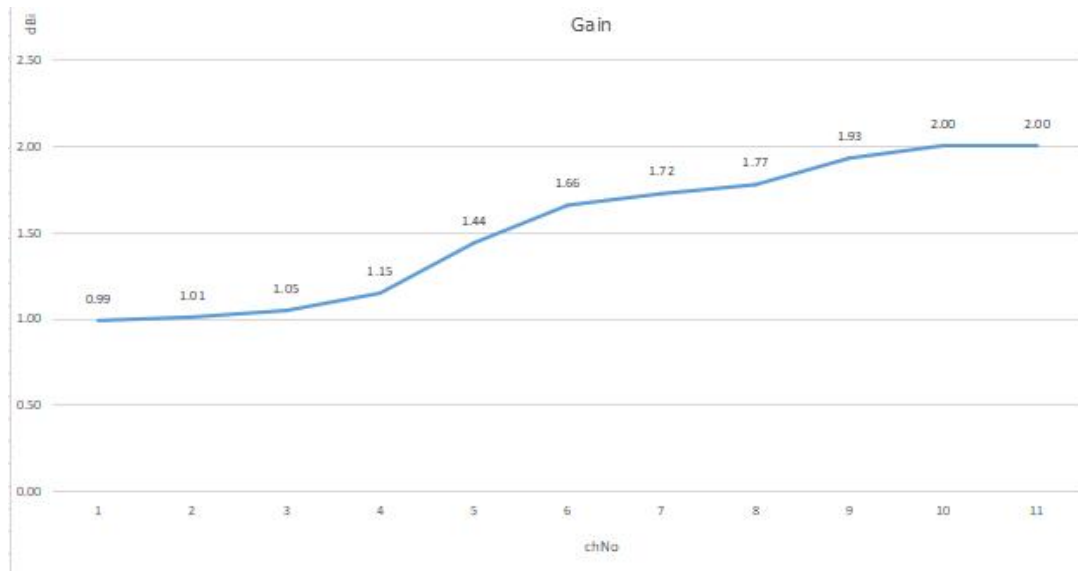


4、Image of antenna field shape test



5、Gain

chNo	1	2	3	4	5	6	7	8	9	10	11
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency_dB	-3.43	-3.44	-3.38	-3.21	-3.05	-2.82	-2.69	-2.55	-2.47	-2.38	-2.39
Gain	0.99	1.01	1.05	1.15	1.44	1.66	1.72	1.77	1.93	2.00	2.00
MinEIRP(dBm)	-17.34	-17.13	-17.58	-17.54	-17.45	-16.55	-16.02	-15.58	-14.44	-14.66	-14.46
BoreSightTheta(°)	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	120.00	150.00
BoreSightPhi(°)	0.00	30.00	30.00	60.00	30.00	30.00	30.00	30.00	60.00	240.00	30.00
NHPRP 30(dBm)	-7.04	-7.02	-6.92	-6.75	-6.57	-6.33	-6.19	-6.07	-5.98	-5.89	-5.91
NHPRP 45(dBm)	-5.31	-5.30	-5.22	-5.03	-4.86	-4.62	-4.48	-4.35	-4.28	-4.17	-4.20
UHRP(dBm)	-7.80	-7.82	-7.78	-7.56	-7.38	-7.12	-6.95	-6.78	-6.69	-6.60	-6.60
LHRP(dBm)	-5.40	-5.40	-5.35	-5.20	-5.04	-4.84	-4.73	-4.61	-4.54	-4.45	-4.46
EIRP_X(dBm)	0.59	0.67	0.71	0.84	1.11	1.37	1.42	1.47	1.54	1.61	1.74
Polarization_X	Theta	Theta	Theta	Theta	Theta	Phi	Phi	Theta	Theta	Phi	Theta
Theta_X(°)	150.00	150.00	150.00	150.00	150.00	105.00	105.00	150.00	150.00	105.00	150.00
Phi_X(°)	60.00	30.00	30.00	60.00	30.00	270.00	270.00	30.00	30.00	270.00	30.00
ThetaMax(°)	0.59	0.67	0.71	0.84	1.11	1.31	1.41	1.47	1.54	1.60	1.74
PhiMax(°)	0.55	0.53	0.66	0.80	1.09	1.37	1.42	1.43	1.52	1.61	1.56
ThetaMin(°)	-34.89	-37.98	-34.42	-31.16	-28.40	-27.28	-27.15	-31.55	-37.06	-48.14	-45.25
PhiMin(°)	-31.02	-30.43	-31.27	-43.54	-40.95	-38.52	-32.32	-31.55	-37.06	-48.14	-45.25
Directivity(dB)	4.41	4.44	4.43	4.36	4.48	4.48	4.41	4.33	4.40	4.43	4.45
UHRP/TRP Ratio(dB)	-4.37	-4.38	-4.40	-4.35	-4.33	-4.30	-4.26	-4.23	-4.22	-4.22	-4.21
UHRP/TRP Ratio(%)	36.56	36.44	36.34	36.71	36.86	37.12	37.52	37.76	37.86	37.87	37.92
Efficiency_Pcent	45.45	45.33	45.87	47.74	49.58	52.23	53.85	55.56	56.56	57.83	57.70
UHEfficiency_dB	-7.80	-7.82	-7.78	-7.56	-7.38	-7.12	-6.95	-6.78	-6.69	-6.60	-6.60
UHEfficiency_Pcent	16.61	16.52	16.67	17.52	18.27	19.39	20.20	20.98	21.41	21.90	21.88
OOR	14.40	14.15	13.80	13.11	13.57	13.59	13.93	14.00	14.07	14.21	13.75



6、3D Radiation Pattern

