



Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

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APPROVA

Version: A1

CLIENTS:

DESCRIPTION:

2.4G built-in FPC antenna 80mm

PART NO.:

YS030-0017

CUS PART NO.:

D A T E:

2019-7-24

Signature of submission:

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Client acknowledges signature :

ENGINEERING DEPARTMENT	QC DEPARTMENT	PURCHASING DEPARTMENT

✕Customer Confirmation Sample Attachment:

Electrical Technical Parameters

Electrical Specifications

Frequency Range	2400-2500MHZ
VSWR	≤2.0
GAIN	2.41dBi
Input Impedance	50 Ω

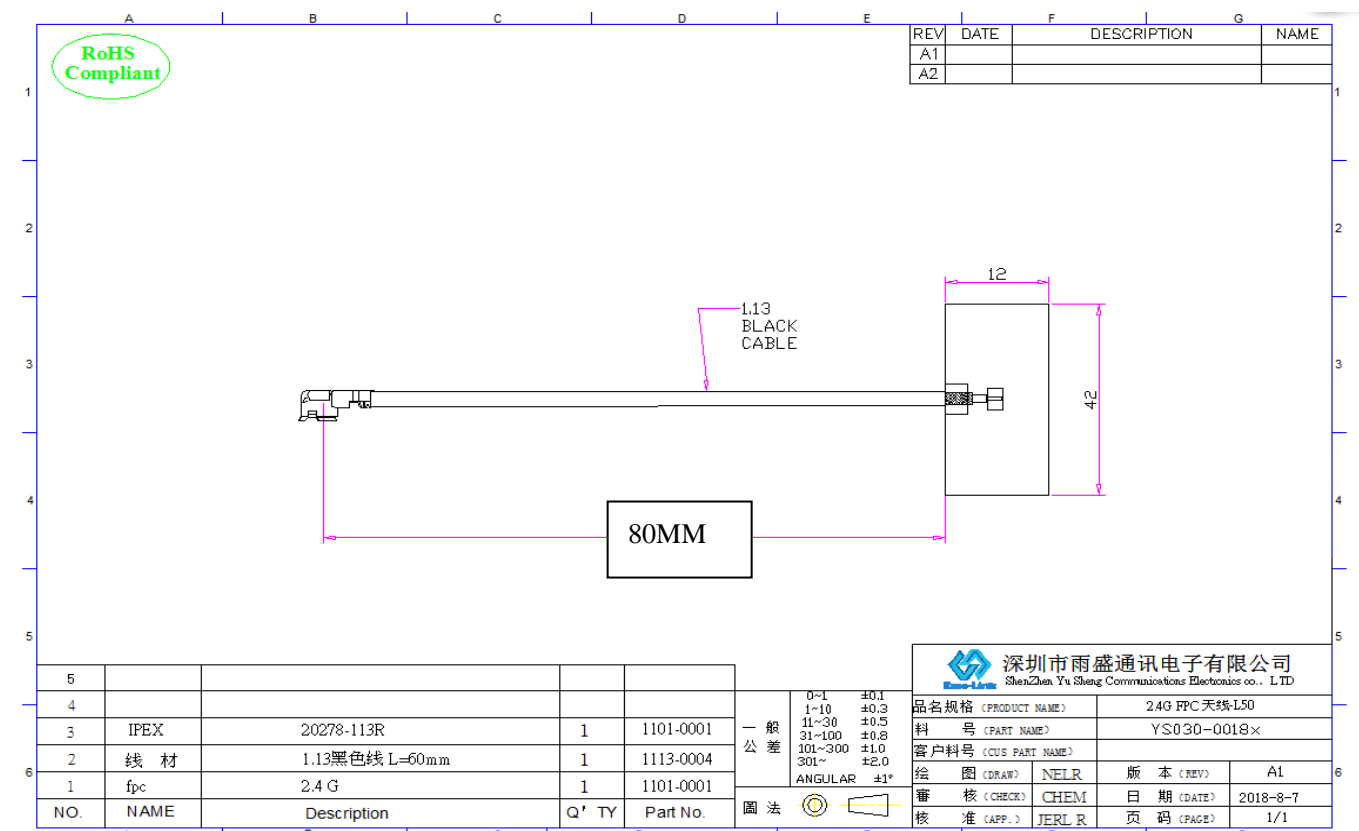
Mechanical Specifications

Antenna Color	BLACK
Input connector	ipex
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

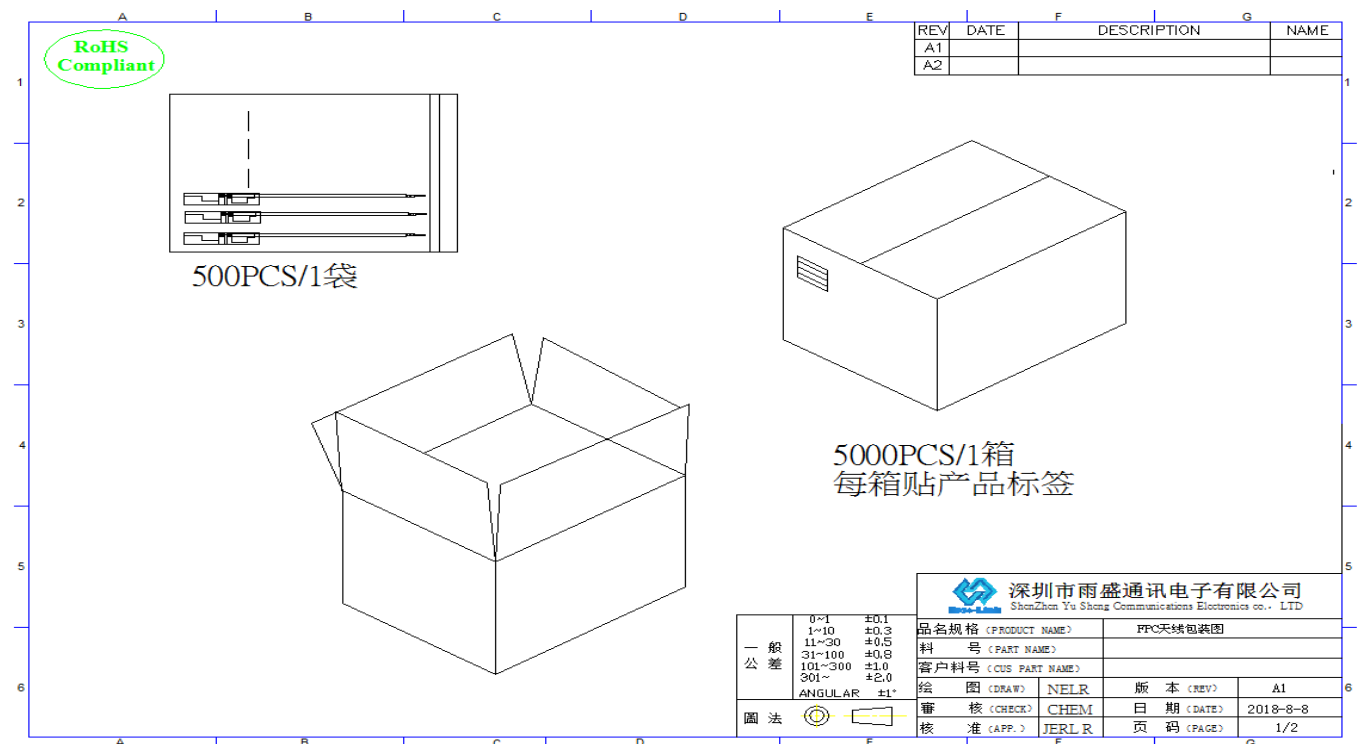
The Picture of Product:



The Picture of Specification:



The Picture of Packing:





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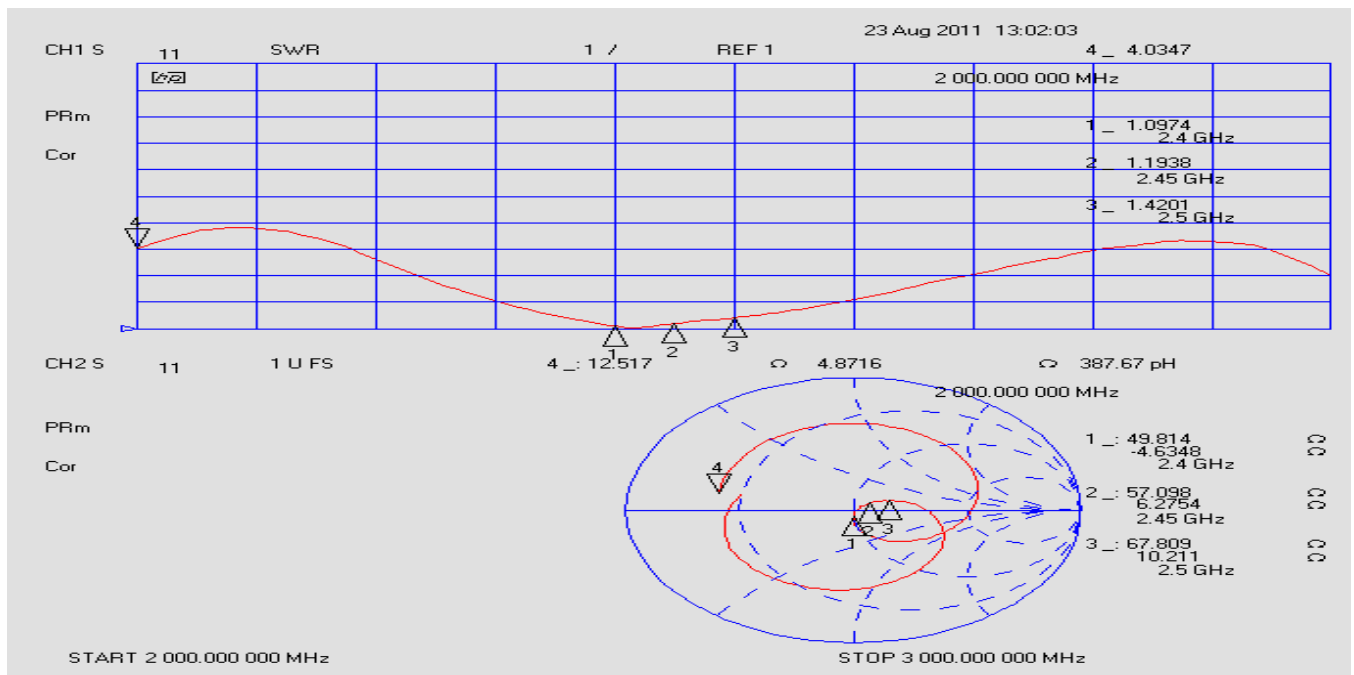
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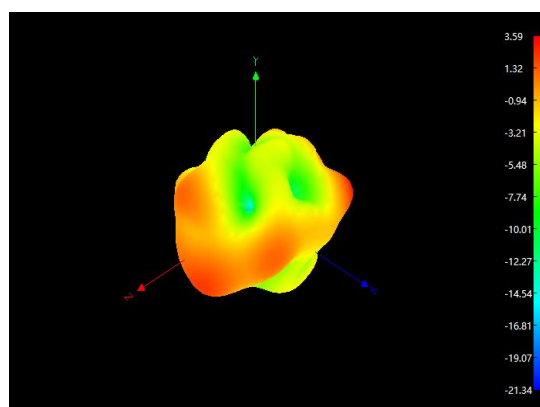
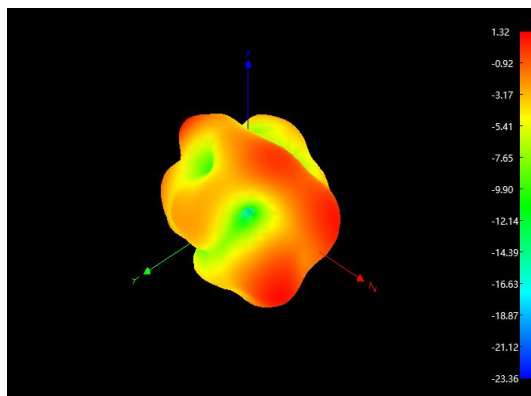
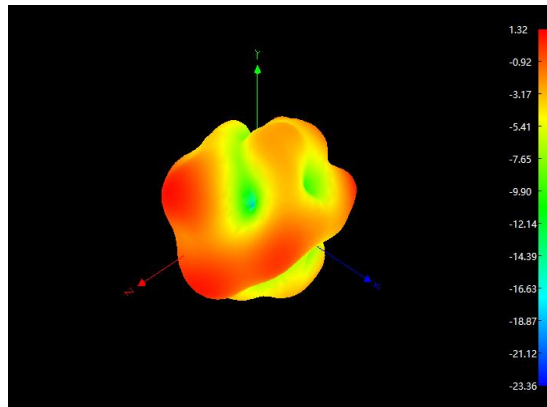
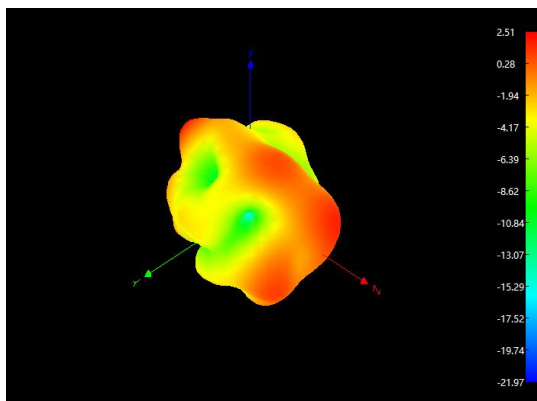
Environmental Performance Testing:

Items	Test Conditions	Result
Storage environment	Test the temperature, humidity, and air pressure without specifying as follows: 1. Temperature of $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative humidity is 45% - 85 3. Air pressure is 86kpa-106kpa	Normal electrical and mechanical performance
High and low temperature test	5 cycles between 70°C and 40°C , and then under normal conditions for 1-2H to check the appearance quality.	The dimensions shall meet the requirements and shall meet the mechanical and electrical properties.
Constant Damp Heat Test	Relative humidity $95 \pm 3\%$. Test temperature: 40°C . Continuously 2H after the action of the specimen removed within 5min to determine the electrical properties, the specimen under normal conditions 1-2H, check the appearance of quality	The dimensions shall meet the requirements and shall meet the mechanical and electrical properties.
Vibration test	Vibration frequency range 10-55HZ. Displacement amplitude: 0.35MM. Acceleration amplitude: 50.0M/S. Sweep cycle times: 30 times	Normal electrical and mechanical performance
Drop test	3 free falls on mutually perpendicular axes at a height of 1M.	Normal electrical and mechanical performance

Sample testing:



Gain Testing:

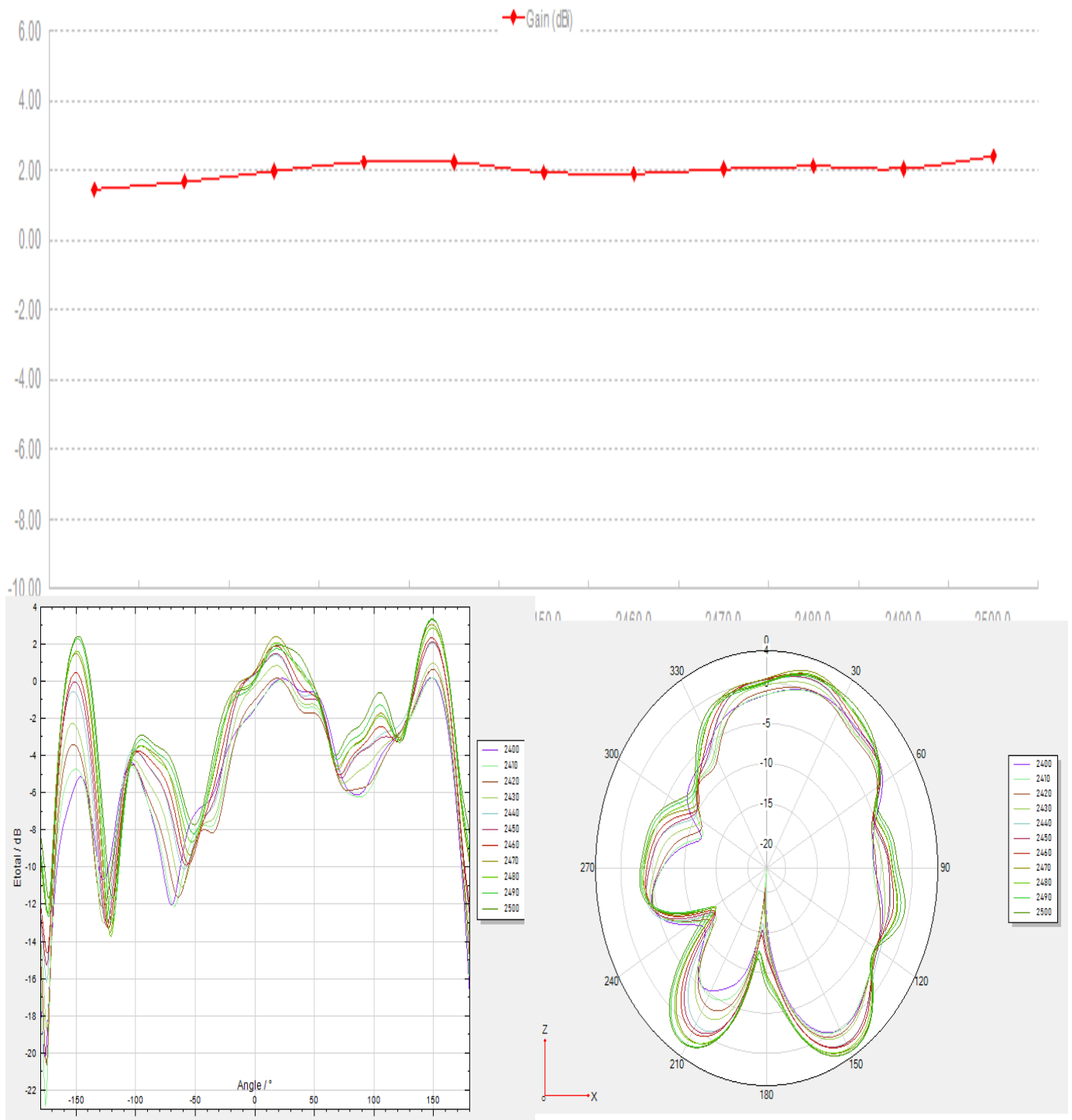




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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.69	-2.52	-2.23	-2.04	-1.95	-2.28	-2.44	-2.49	-2.60	-2.83	-2.45
Peak EIRP (dBm)	1.46	1.67	1.98	2.24	2.24	1.94	1.91	2.04	2.12	2.05	2.41
Directivity (dBi)	4.15	4.19	4.21	4.28	4.19	4.22	4.36	4.52	4.72	4.87	4.86
Efficiency (dB)	-2.69	-2.52	-2.23	-2.04	-1.95	-2.28	-2.44	-2.49	-2.60	-2.83	-2.45
Efficiency (%)	53.80	56.00	59.80	62.50	63.80	59.20	57.00	56.40	55.00	52.20	56.90
Gain (dBi)	1.46	1.67	1.98	2.24	2.24	1.94	1.91	2.04	2.12	2.05	2.41
NHPRP $\pm\pi/4$ (dBm)	-3.69	-3.36	-2.92	-2.52	-2.55	-2.92	-3.24	-3.47	-3.56	-3.59	-2.96
NHPRP $\pm\pi/6$ (dBm)	-4.35	-4.03	-3.59	-3.20	-3.23	-3.60	-3.92	-4.14	-4.22	-4.26	-3.65
NHPRP $\pm\pi/8$ (dBm)	-4.96	-4.64	-4.21	-3.82	-3.85	-4.21	-4.53	-4.75	-4.83	-4.88	-4.29
Upper Hem. PRP (dBm)	-5.17	-4.93	-4.58	-4.35	-4.22	-4.52	-4.66	-4.67	-4.76	-4.96	-4.55
Lower Hem. PRP (dBm)	-6.30	-6.22	-6.01	-5.89	-5.85	-6.22	-6.43	-6.51	-6.65	-6.93	-6.61
Upper Hem. PRP (%)	30.38	32.14	34.79	36.77	37.80	35.31	34.18	34.09	33.41	31.88	35.06
Lower Hem. PRP (%)	23.45	23.85	25.03	25.78	26.03	23.90	22.78	22.33	21.60	20.29	21.82