



Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

FAX: +86 755 28694967

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:

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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°C~+85°C
Working Humidity	20~80%

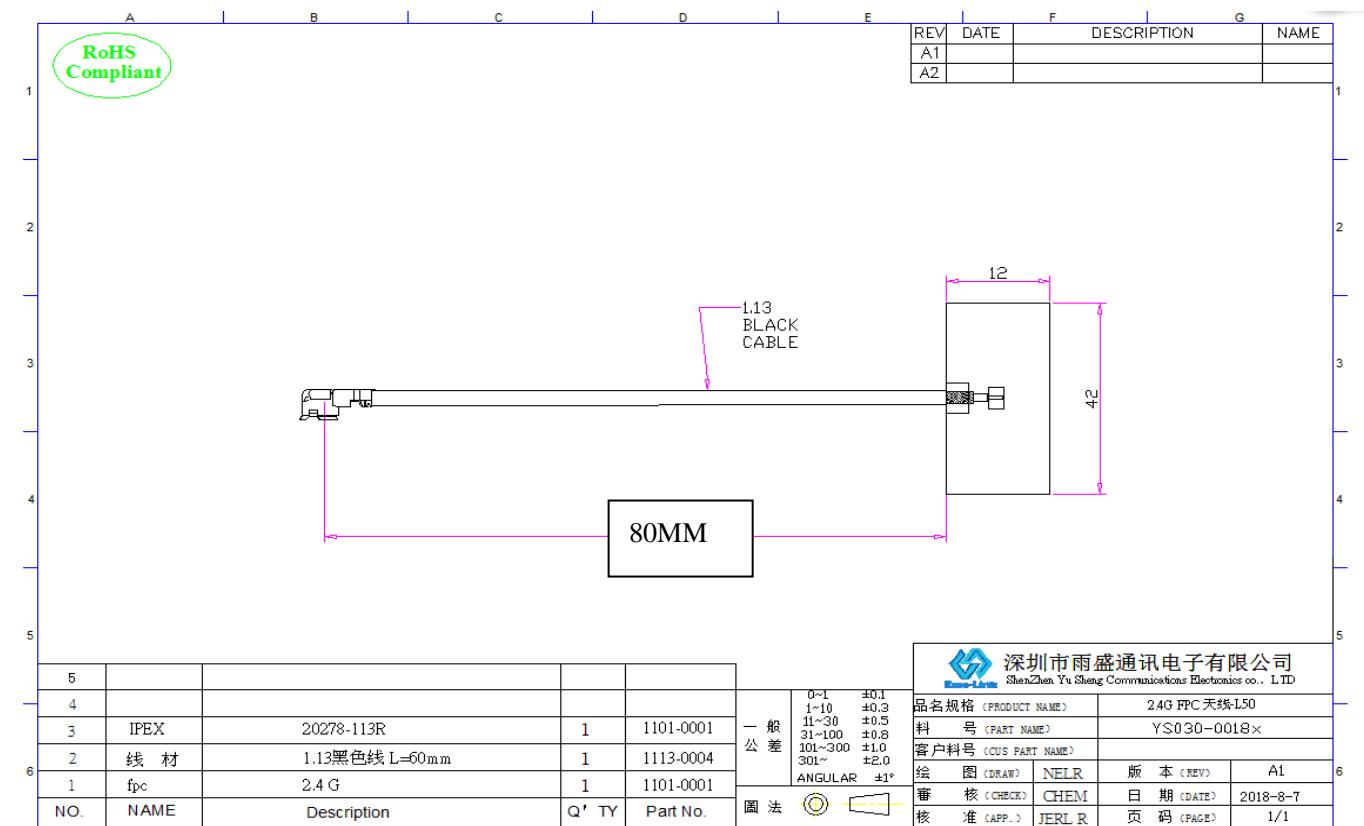
The Picture of Product:



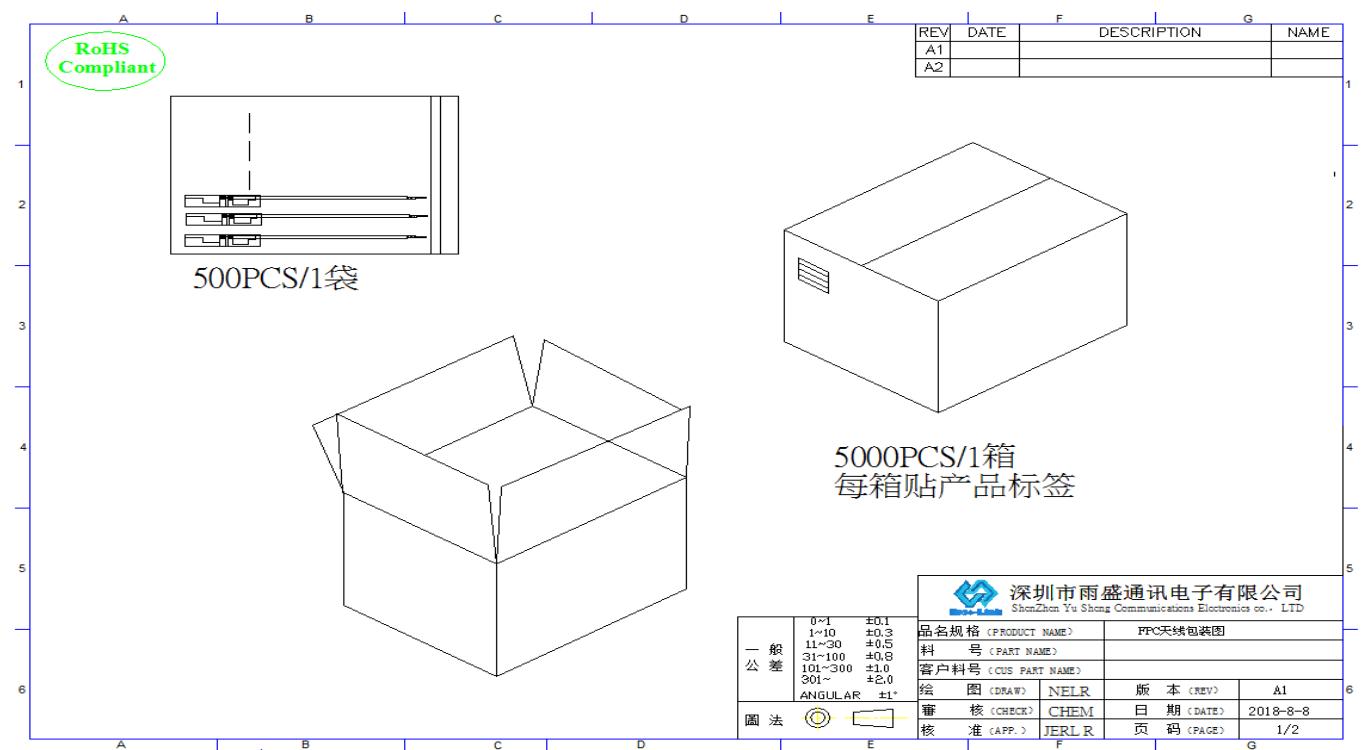
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The Picture of Specification:



The Picture of Packing:



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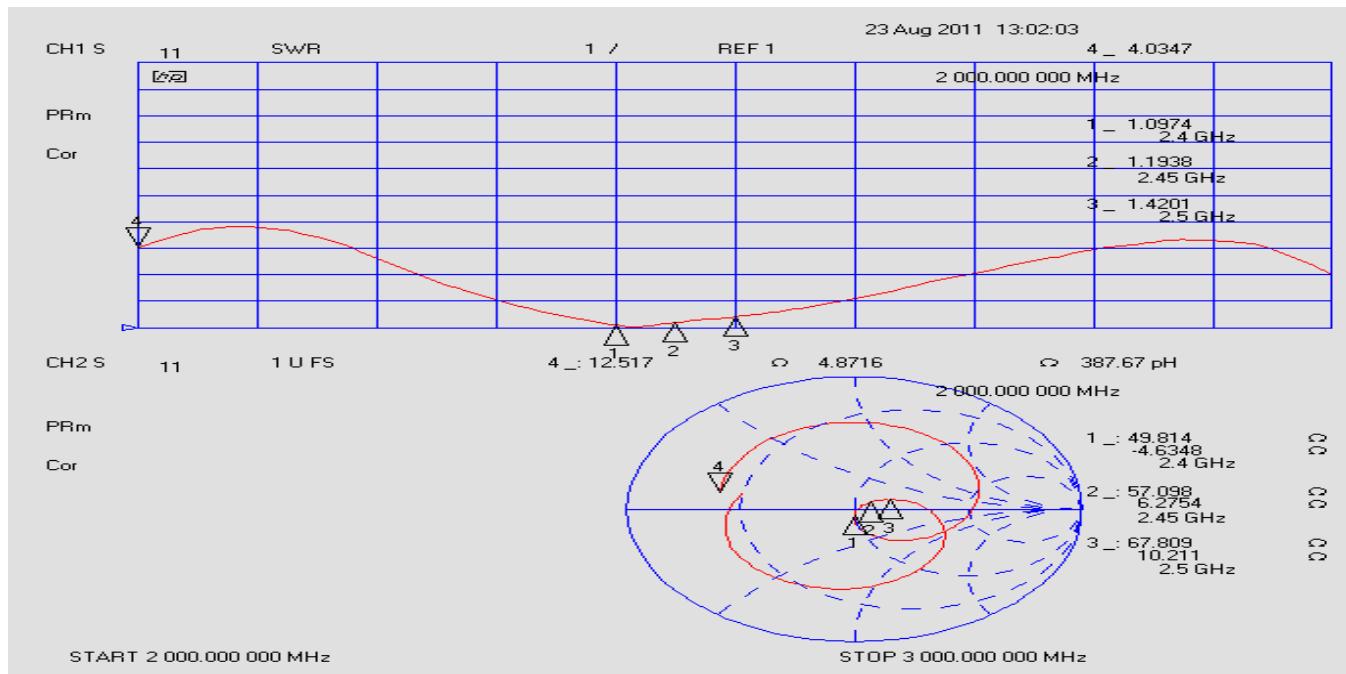
Environmental Performance Testing:

Items	Test Conditions	Result
Storage environment	<p>Test the temperature, humidity, and air pressure without specifying as follows:</p> <ol style="list-style-type: none"> 1. Temperature of -30°C~+80°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	<p>Relative humidity 95±3%.</p> <p>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</p>	The dimensions shall meet the requirements and shall meet the mechanical and electrical properties.
Vibration test	<p>Vibration frequency range 10-55HZ.</p> <p>Displacement amplitude: 0.35MM.</p> <p>Acceleration amplitude: 50.0M/S.</p> <p>Sweep cycle times: 30 times</p>	Normal electrical and mechanical performance
Drop test	3 free falls on mutually perpendicular axes at a height of 1M.	Normal electrical and mechanical performance

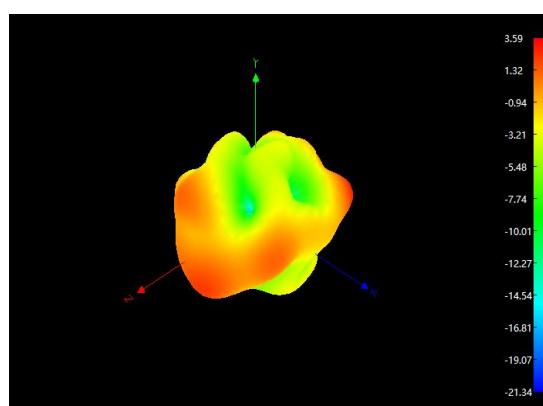
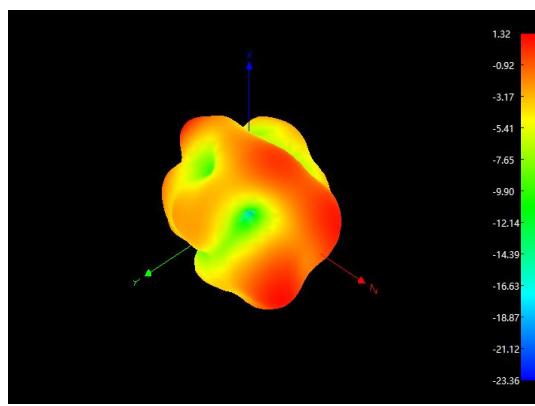
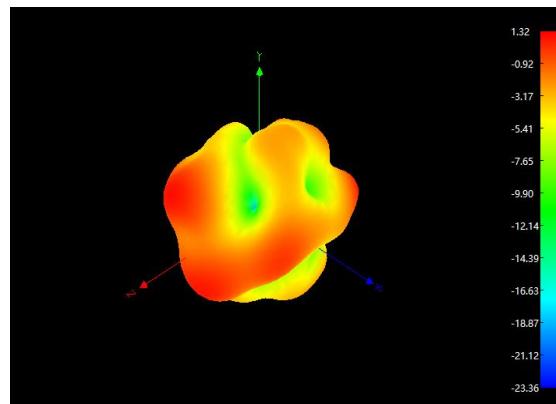
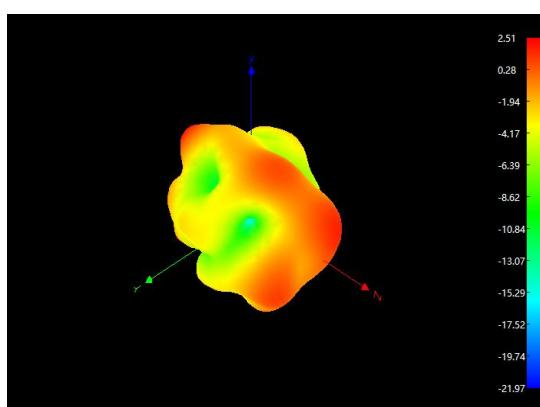
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Sample testing:

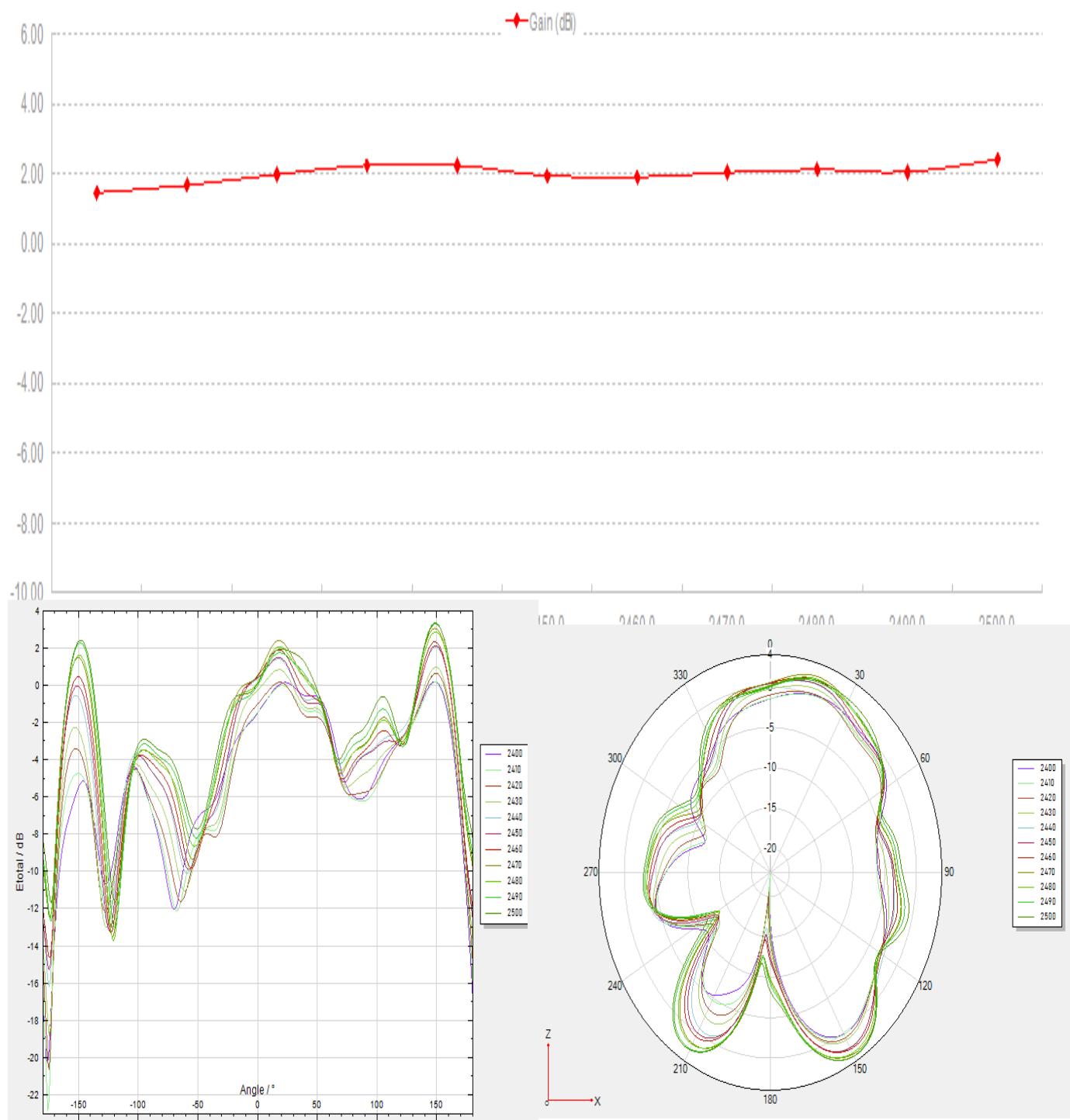


Gain Testing:



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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 ±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 ±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 ±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