

ShenzhenYu Sheng Communications

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

FAX: +86 755 28694967

APPROVAL

Version: A1

Customer

:

QC Description Spec
DESCRIPTION:

2.4G Built-in FPCAntenna100mm

Part No.
PART NO.:

YS030-0017

Customer Part No.
CUS PART NO.:

Date

D A T E:

2019-7-24

Sample Approval Stamp:

ENGINEERING ENGINEERING DEPARTMENT	QC Q C DEPARTMENT	SALES SALES DEPARTMENT

Customer Approval Stamp :

ENGINEERING ENGINEERING DEPARTMENT	QC Q C DEPARTMENT	PURCHASING PURCHASING DEPARTMENT

★CustomerCustomer Sample Confirmation Notes:

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Electrical and Mechanical Specifications

Elec. Perf. Specs		Electrical Specifications	
Frequency Range	2400-2500MHZ	Frequency Range	2400-2500MHZ
VSWR	≤ 2.0	VSWR	≤ 2.0
Gain	2.41DBI	GAIN	2.41DBI
Input Impedance	50 Ω	Input Impedance	50 Ω
Mech. Specs		Mechanical Specifications	
AntennaColor	BLACK	Antenna Color	BLACK
Connector Type	IPEX	Input connector	ipex
Operating Temperature	-40℃~+85℃	Working Temperature	-40℃~+85℃
Operating Humidity	20~80%	Working Humidity	20~80%

Product Photos:

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Dimension Drawing

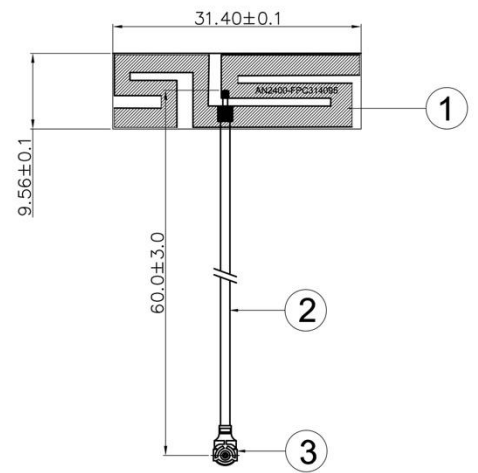
Factory Address: 3F-4F, No.102 Aoxi Road, Aobei
Village, Henggang Town, Longgang District, Shenzhen 1023-4

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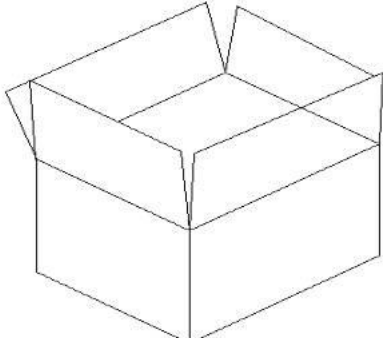
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1	2	3	4	5	6	7	8																								
HF ☐					SIGN ☐		DATE																								
RoHS2.0 ☒					DESCRIPTION		APPROVER																								
REACH ☐					DATE																										
CONFIDENTIAL					DATE																										
																															
Note: 1.Mark * is important dimension;"Cpk "Identify for process control(CpK ≥ 1.33). 2.Tolerance:Unmarked tolerance refer to the standard tolerance please. 3.Pay attention to the direction of the connector.																															
Shenzhen Yu Sheng Communications Electronics co., LTD																															
<table border="1"><thead><tr><th>No.</th><th>Part Number</th><th>Name</th><th>Material</th><th>Finish</th><th>Q'ty</th></tr></thead><tbody><tr><td>3</td><td>CR-113-ZP-A</td><td>I-PEX</td><td>Cu</td><td>Au Plating</td><td>1</td></tr><tr><td>2</td><td>CB-113GS</td><td>Coaxial Cable</td><td>OD1.13</td><td>Gray</td><td>1</td></tr><tr><td>1</td><td>AN2400-FPC314095</td><td>FPC</td><td></td><td>Black</td><td>1</td></tr></tbody></table>					No.	Part Number	Name	Material	Finish	Q'ty	3	CR-113-ZP-A	I-PEX	Cu	Au Plating	1	2	CB-113GS	Coaxial Cable	OD1.13	Gray	1	1	AN2400-FPC314095	FPC		Black	1			
No.	Part Number	Name	Material	Finish	Q'ty																										
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1	AN2400-FPC314095	FPC		Black	1																										
					Tolerance																										
					X.X ±0.5																										
					X.XX ±0.2																										
					X' ±1																										
					REVISION																										
					A																										

Packaging Drawing:

1	2	3	4	5	6	7	8														
					REV ☐		DATE														
					DESCRIPTION		NAME														
500PCS/BAG					DATE																
					DESCRIPTION																
5000PCS/CARTON					DATE																
Affix product label on each carton					DATE																
GENERAL TOLERANCE					Shenzhen Yu Sheng Communications Electronics co., LTD																
<table border="1"><thead><tr><th>UNIT</th><th>TOLERANCE</th></tr></thead><tbody><tr><td>0~1</td><td>±0.1</td></tr><tr><td>1~10</td><td>±0.3</td></tr><tr><td>11~30</td><td>±0.5</td></tr><tr><td>31~100</td><td>±0.8</td></tr><tr><td>101~300</td><td>±1.0</td></tr><tr><td>301~</td><td>±2.0</td></tr></tbody></table>					UNIT	TOLERANCE	0~1	±0.1	1~10	±0.3	11~30	±0.5	31~100	±0.8	101~300	±1.0	301~	±2.0	FPC Antenna Packing Drawing		
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301~	±2.0																				
DRAWING SYMBOL					(PRODUCT NAME)																
					(PART NAME)																
					(CUS PART NAME)																
					(DRAW)		(REV)														
					(CHECK)		(DATE)														
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Environmental Performance Test:

Item	Test Conditions	Specification
Storage Environment	Test temperature, humidity, and air pressure (unless otherwise specified) are as follows: 1. 1. Temperature:-30℃~+80℃ 2. 2. Relative Humidity:45%-85% 3. 3. Air Pressure:86kpa-106kpa	Normal Electrical and Mechanical Performance
Temperature Cycling Test	Perform70℃and40℃for5cycles, then under normal conditions for 1-2H, inspect appearance quality.	Dimensions and mechanical and electrical performance shall meet requirements
Constant Damp Heat Test	Relative humidity $95\pm3\%$, test temperature:40℃.for2Hduration, Within5minof removing sample, measure electrical performance, under normal conditions for 1-2H, inspect appearance quality.	Dimensions and mechanical and electrical performance shall meet requirements
Vibration Test	Frequency range:10-55HZ, displacement amplitude:0.35MM, acceleration amplitude: 50.0M/S, sweep cycles:30times	Normal Electrical and Mechanical Performance
Drop Test	1Mfree fall from 1M height along mutually perpendicular axes for3times	Normal Electrical and Mechanical Performance

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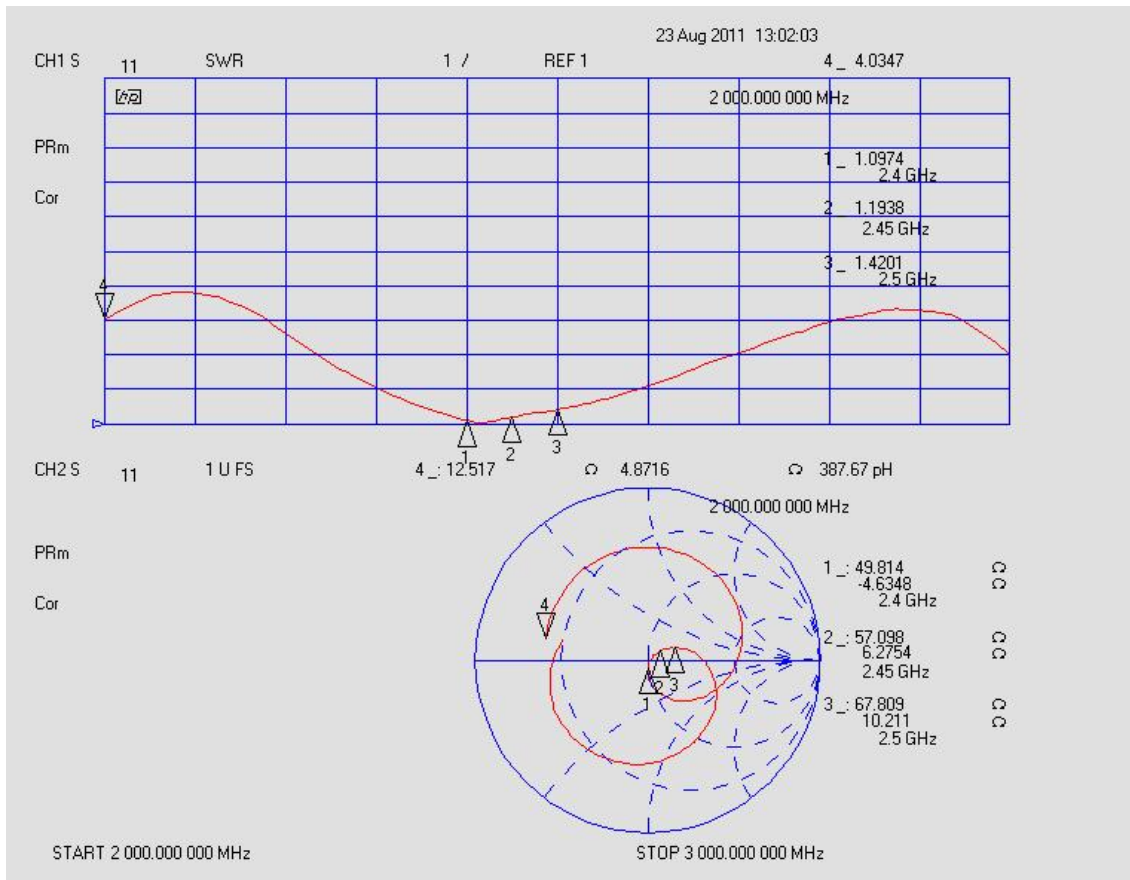
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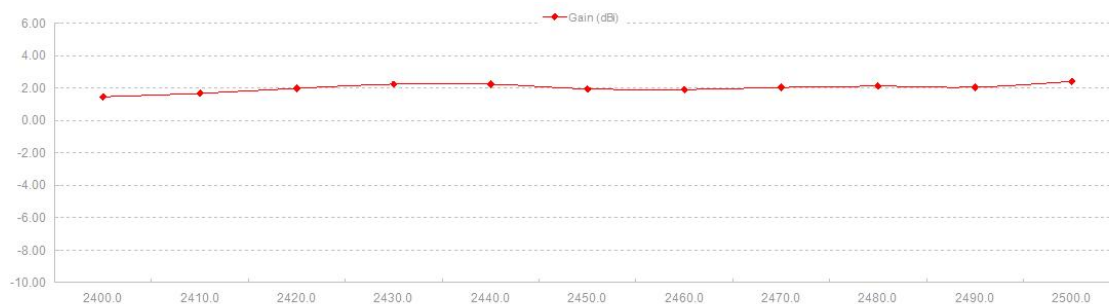
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Sample Test



Gain Test:



Factory Address: 3F-4F, No.102 Aoxi Road, Aobei Village, Henggang Town, Longgang District, Shenzhen 1023-4

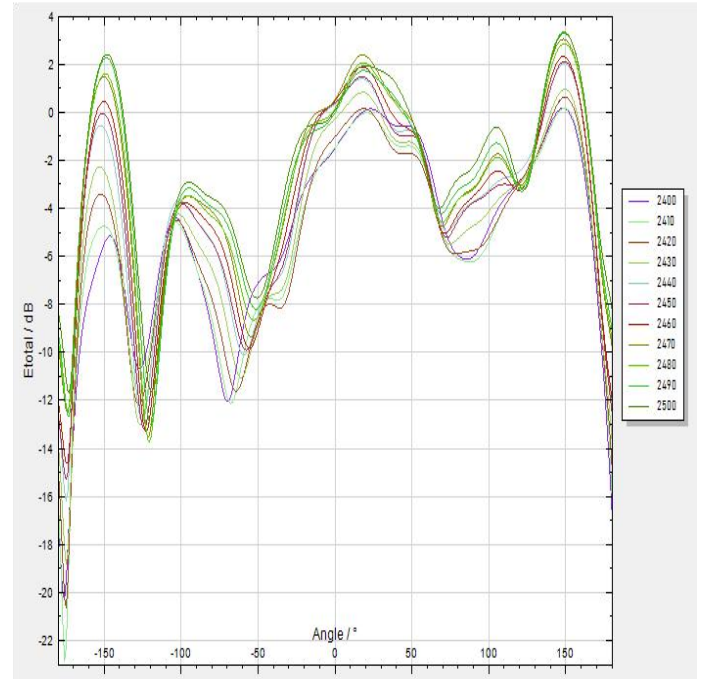
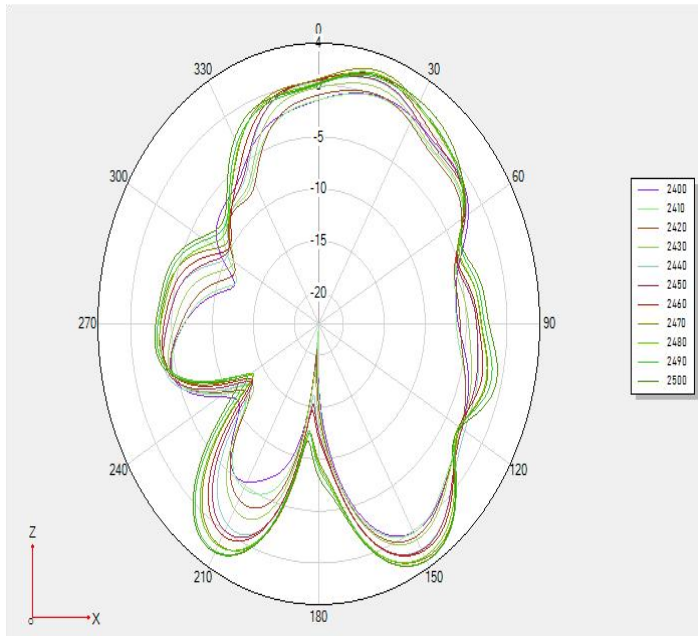
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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (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



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