

Product Number: 2.4G Antenna L=120mm MHF

Product Name : 008.ETS001062

Manufacturer: Kunshan Fengxun Electronics Co., Ltd.

**2nd Floor, Factory 4, No. 811 Huayuan Road, Zhangpu Town,
Kunshan, Jiangsu Province, China**

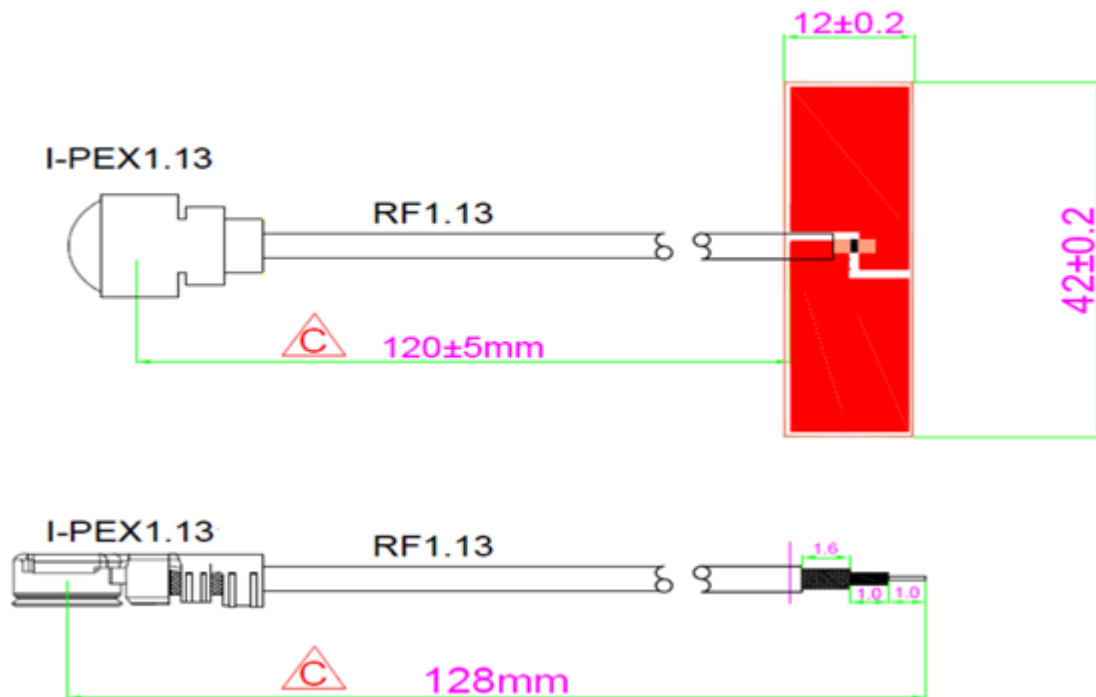
Index:

- 1. Reliability Testing**
 - 2. Specification**
 - 3. S Parameter Test Data**
 - 4. Antenna Radiation Pattern**
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1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < $\pm 5\%$
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < $\pm 5\%$
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < $\pm 5\%$

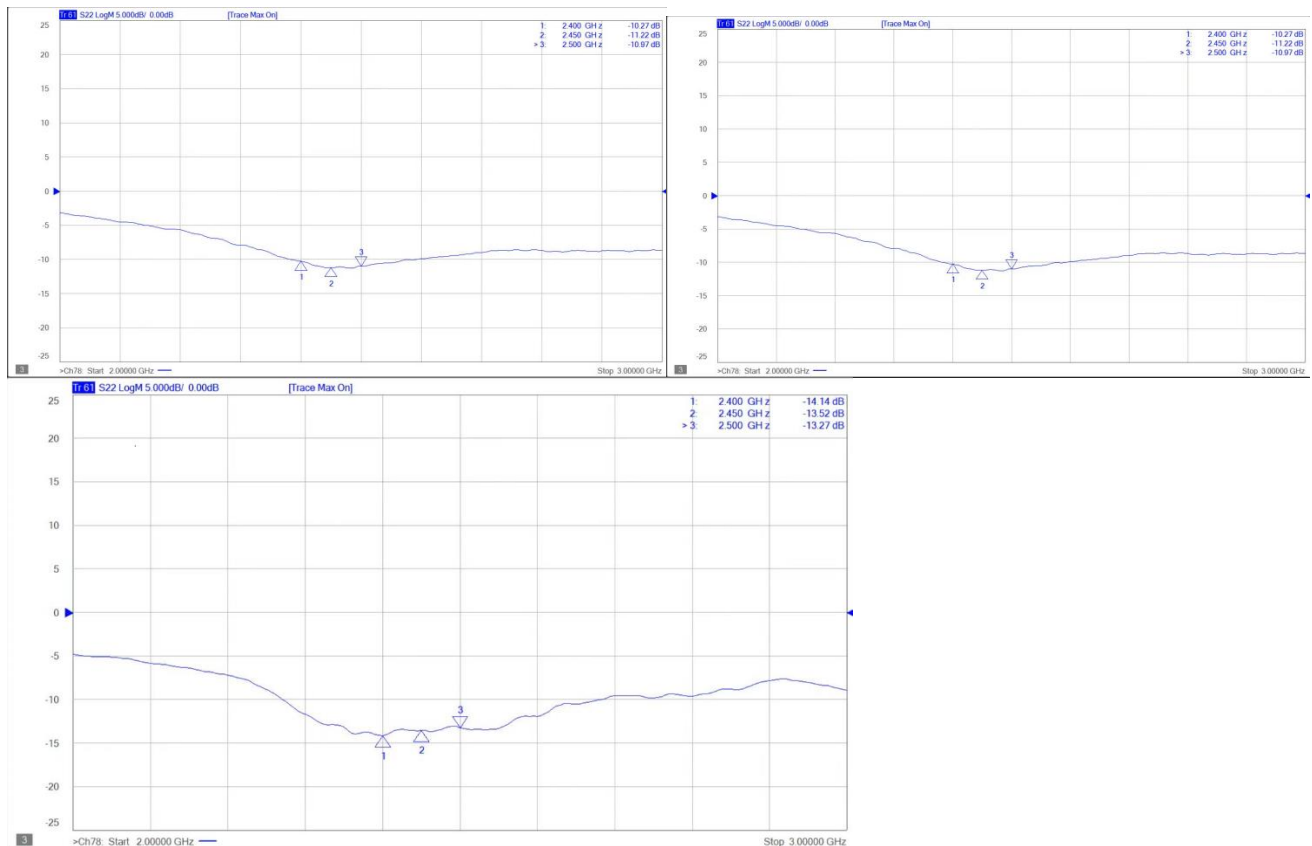
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2. Specification

A. Electrical Characteristics	
S.W.R.	2400-2500MHz:≥1.8
Antenna Gain	5 ±0.5 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	IPEX
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

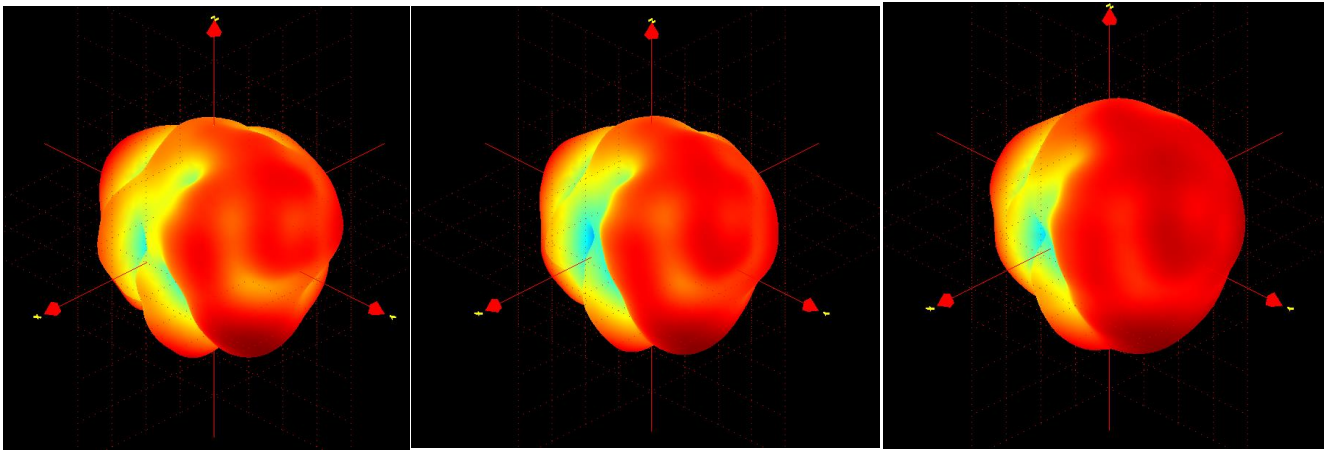
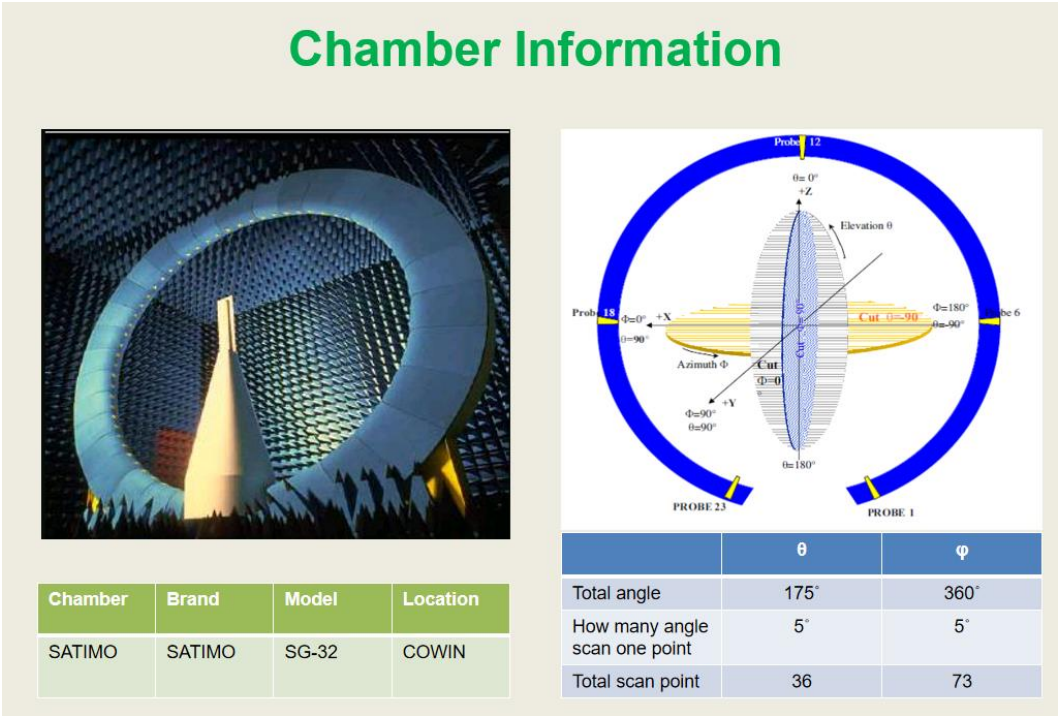
3. S Parameter Test data



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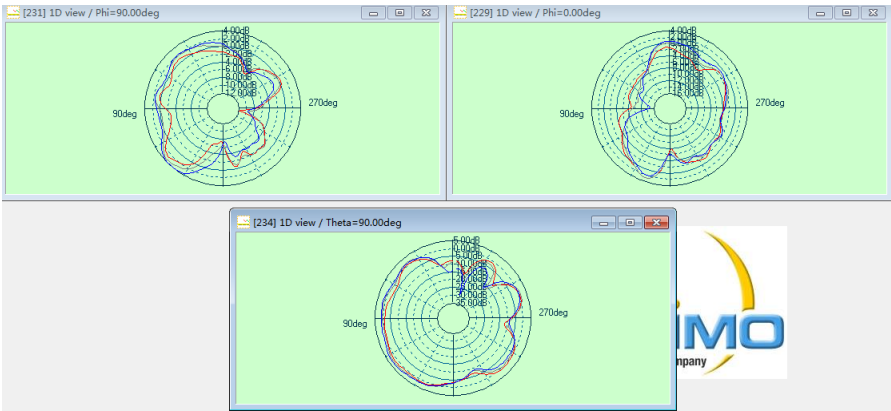
4. Antenna Radiation Pattern



2400MHz

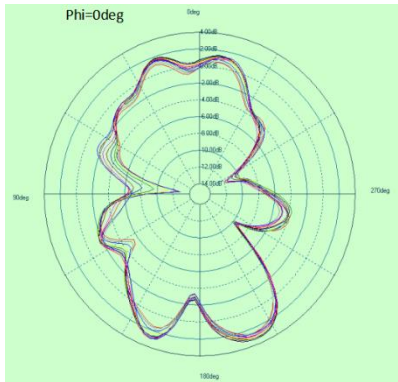
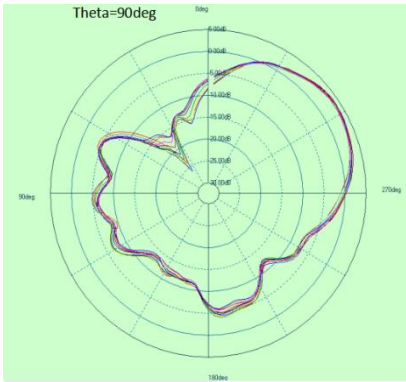
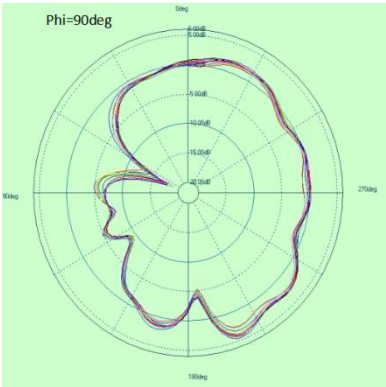
2450MHz

2500MHz



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Frequency	Average (dBi)	Max value (dBi)	Min value (dBi)
2400 (MHz)	-1.72	5.57	-25.89
2410 (MHz)	-1.70	5.68	-26.85
2420 (MHz)	-1.60	5.61	-25.58
2430 (MHz)	-1.36	5.97	-23.97
2440 (MHz)	-1.36	5.76	-22.73
2450 (MHz)	-1.43	5.36	-22.16
2460 (MHz)	-1.37	5.45	-22.34
2470 (MHz)	-1.50	5.40	-22.92
2480 (MHz)	-1.45	5.26	-23.46
2490 (MHz)	-1.62	5.22	-24.01
2500 (MHz)	-1.43	5.56	-23.03

Test / Position	Gain / Free Space																				
Frequency (MHz)	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2495	2500
Avg Gain	-2.5	-2.4	-2.3	-2.2	-2.1	-2.0	-1.8	-1.8	-1.6	-1.6	-1.5	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.8	-1.8
Peak Gain	4.1	4.2	4.4	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.4	5.5	5.6	5.6	5.7	5.7	5.7	5.7	5.6	5.5
Directivity	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.7	6.9	6.9	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.3
Efficiency	-2.5	-2.4	-2.3	-2.2	-2.1	-2.0	-1.8	-1.8	-1.6	-1.6	-1.5	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.8	-1.8
Efficiency (%)	56.7	58.1	59.4	60.2	62.0	63.7	65.3	66.8	68.6	69.8	70.1	72.0	72.3	71.9	71.6	70.7	70.2	69.2	68.5	66.8	65.7