

深圳市家和顺电子有限公司

Shenzhen Jia He Shun Technology CO., LTD

APPROVAL

Version: A1

Customer: **Light Emission Technology Ltd.**

Specification: **2.4 Aerial with length 100mm, gen. 1st**

Part No : JHS-5DB-001

Customer Item.:

Date: 2025-12-22

Sample Reviewed:

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
田宏亮	田青	聂鹏飞

Customer Approved:

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

✕Customer Remarks or Comment on Approval Samples:

Shenzhen Jia He Shun Technology CO., LTD

Address: No. 102, Aoxi Road, Aobei Village, Henggang Town, Longgang District,
Shenzhen City, Guangdong Province, China

Electrical Parameter

Electrical Specifications

Frequency Range	2400MHZ
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VSWR	≤2.0
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GAIN	5dBi
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Input Impedance	50 Ω
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Mechanical Specifications

Antenna Color	BLACK
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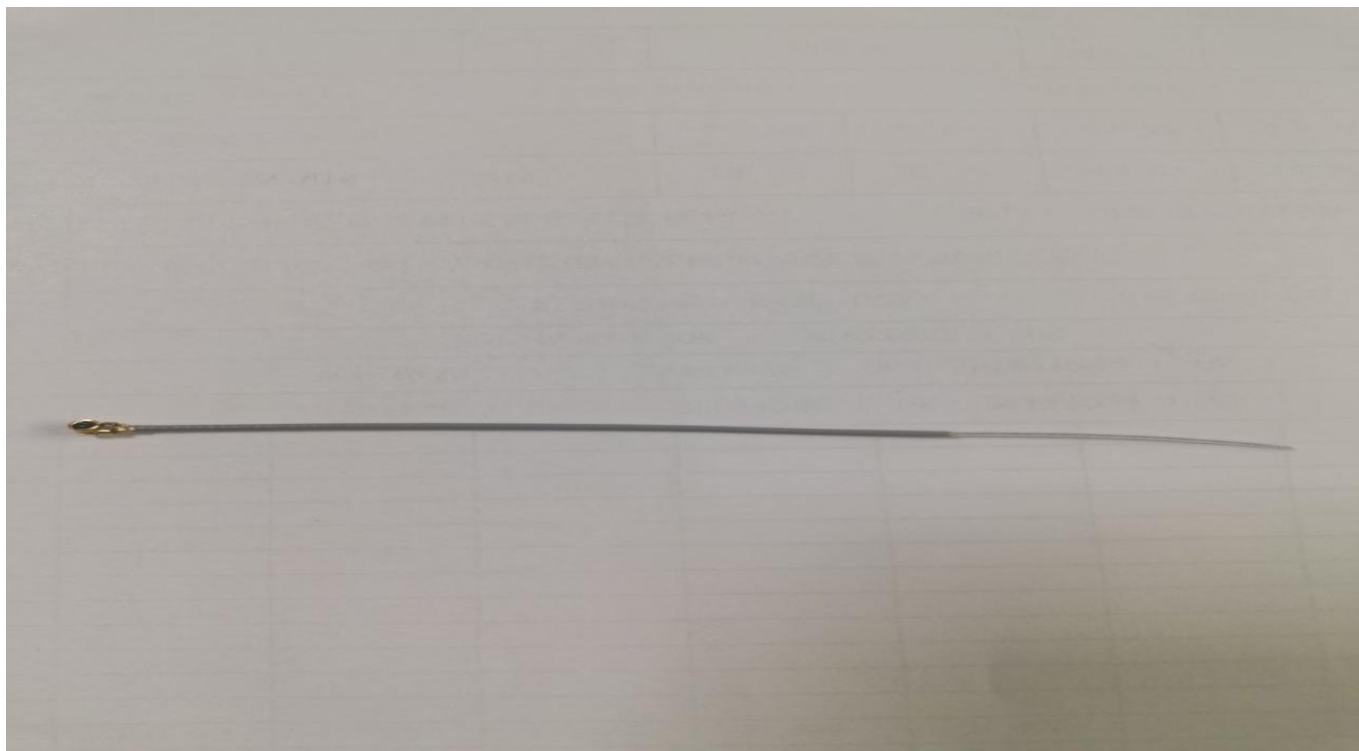
Input connector	ipex
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Cable length	100mm
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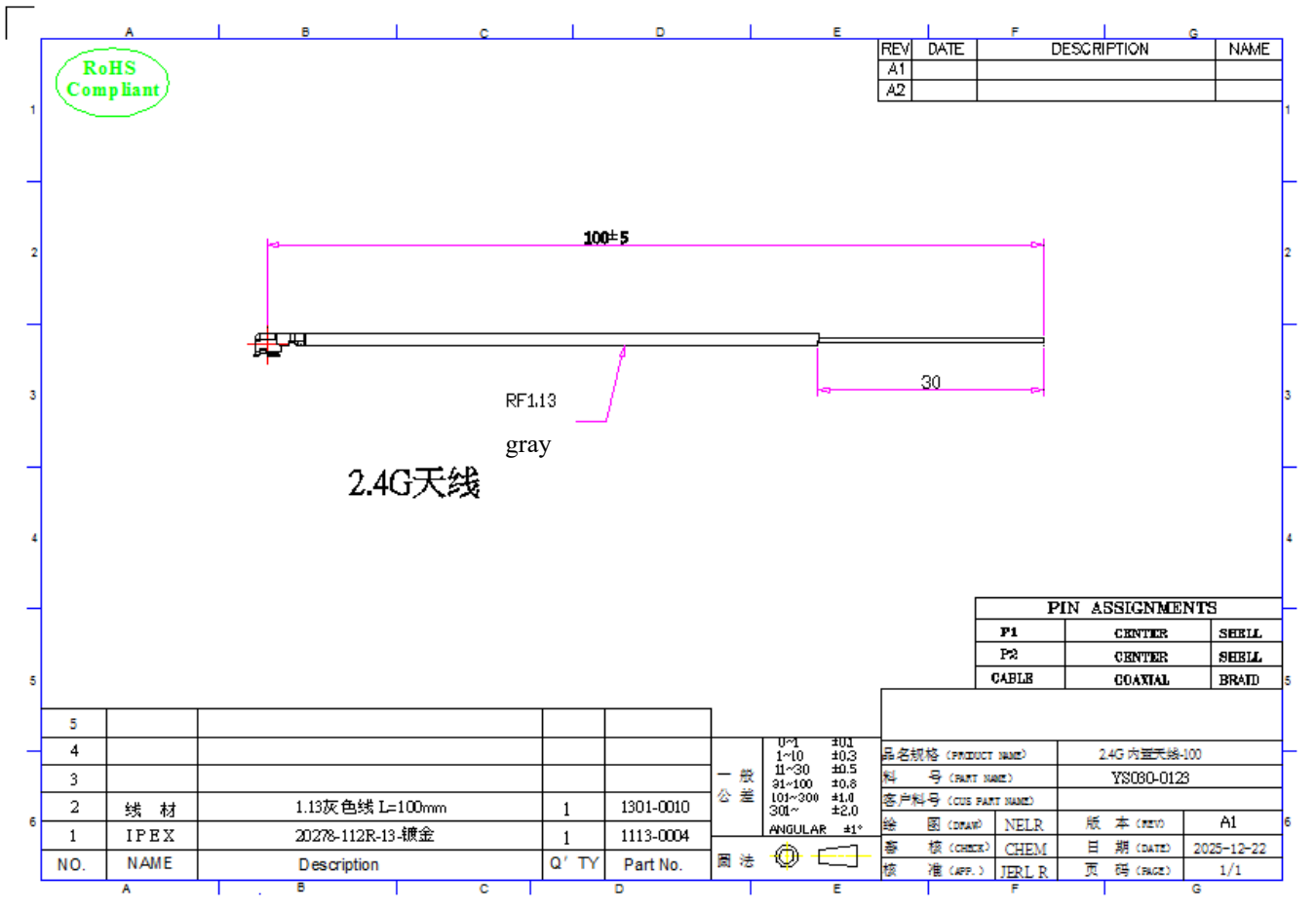
Working Temperature	-40℃~+85℃
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Working Humidity	20~80%
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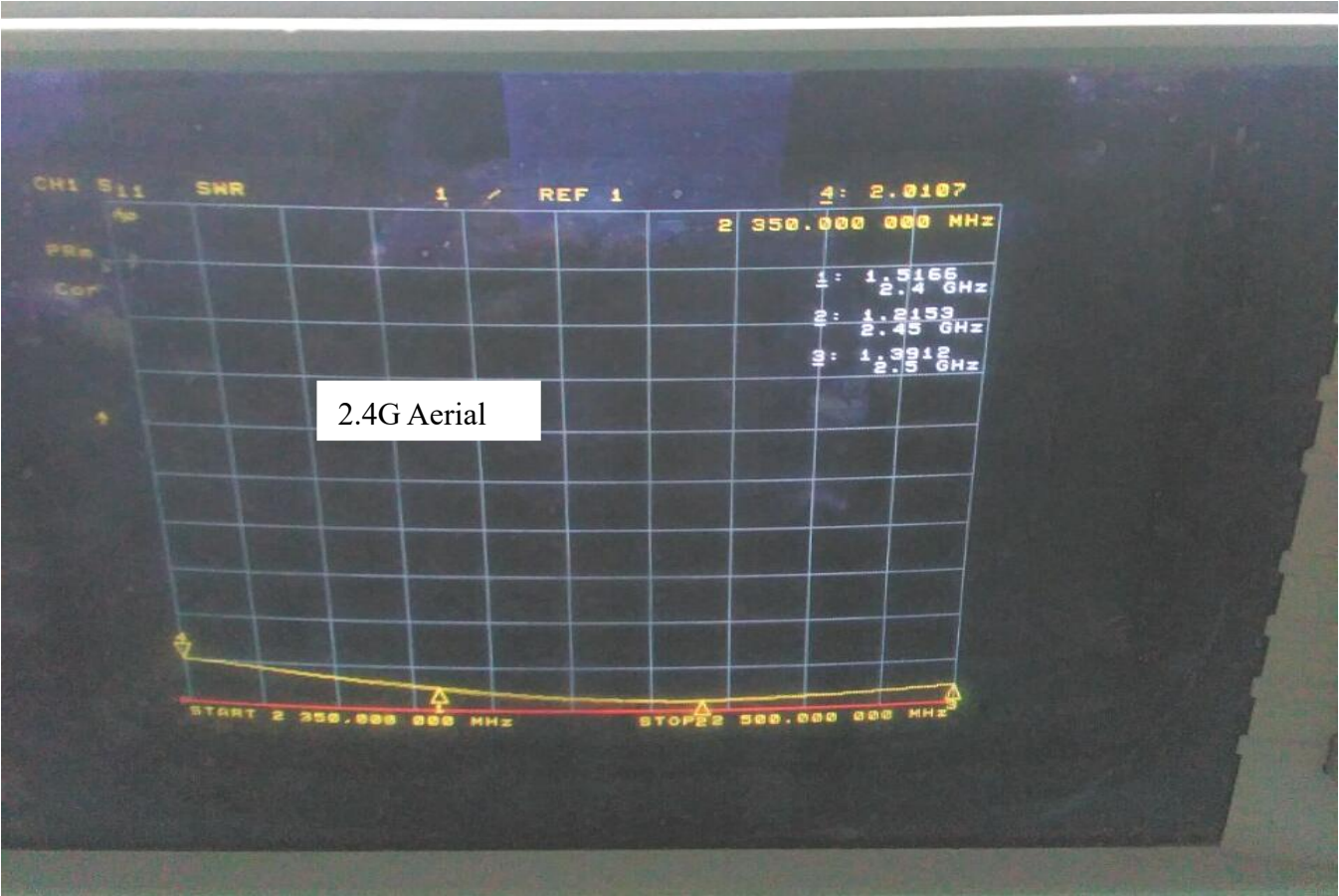
Antenna Dimensions

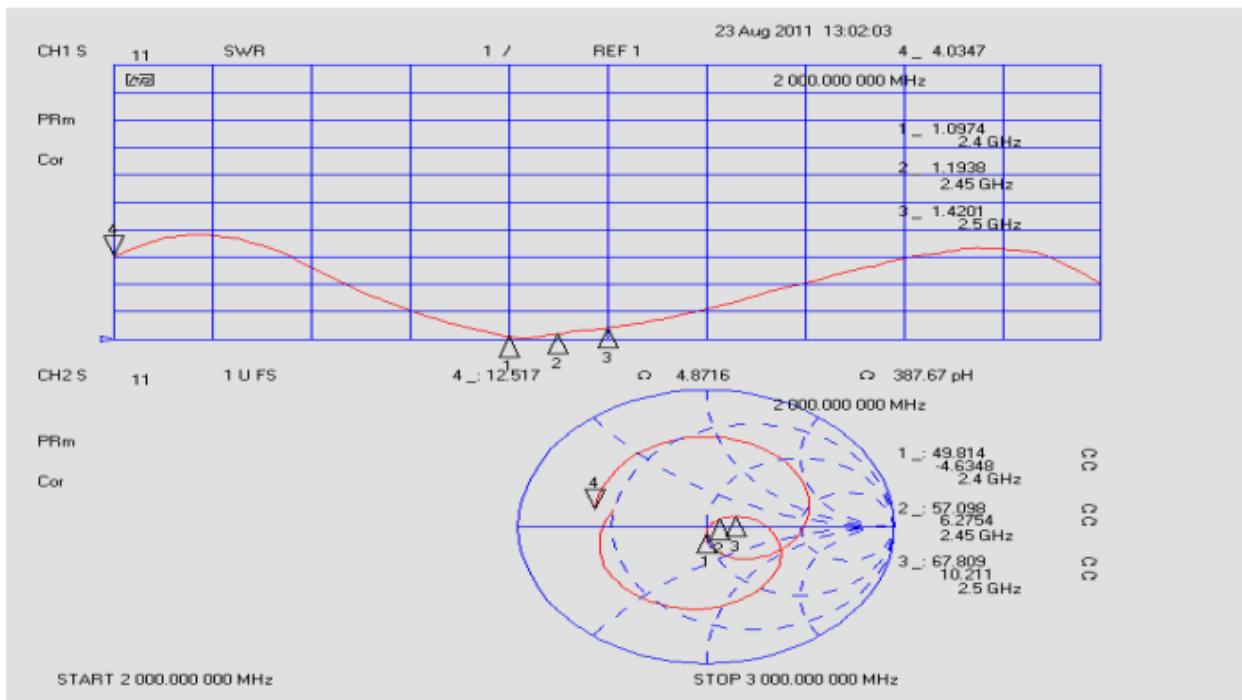


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VSWR

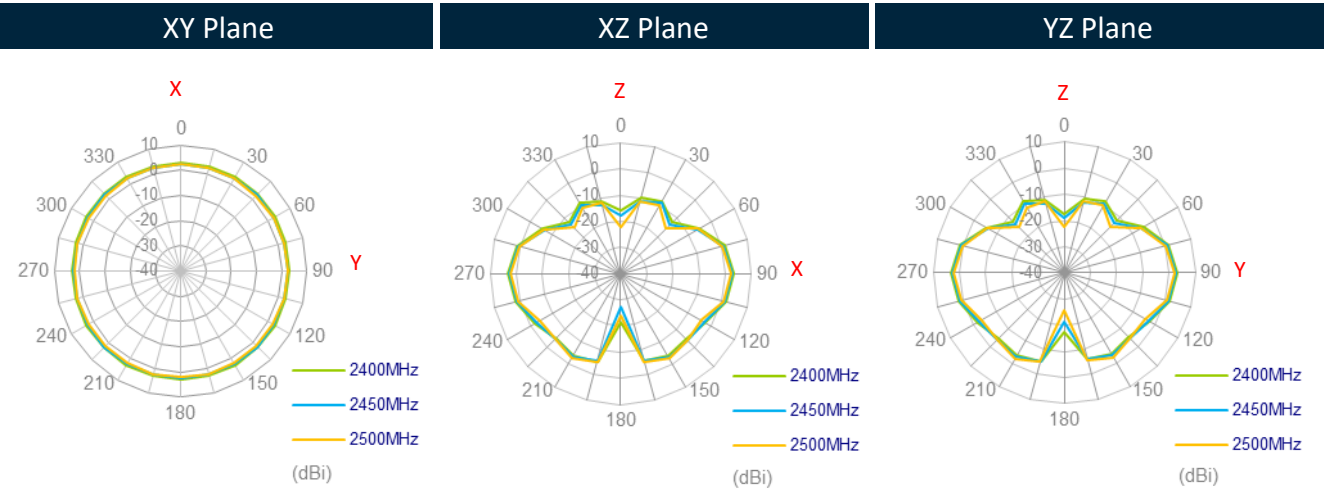
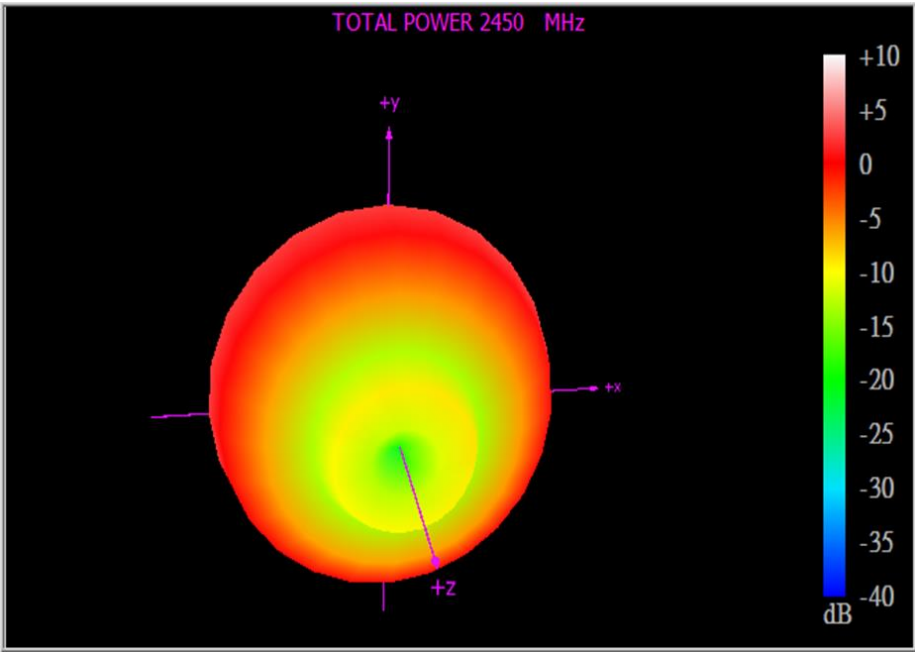




Antenna Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.14	-1.43	71.56
2450	5.00	-1.44	71.84
2500	3.98	-1.56	69.80

Radiation Pattern



Environmental Performance Testing

Subject	Testing Conditions	Specification
Storage Environment	Test temperature, humidity, and air pressure without specifying as follows: 1. Temperature range: -30℃~+80℃ 2. Related humidity: 45%-85% 3. Air pressure: 86kpa-106kpa	Normal electrical and mechanical performance
High and Low Temperature Test	Perform 5 cycles between 70 °C and 40 °C, then under normal conditions for 1-2 hours, then inspect its appearance.	The dimension should meet the requirements, mechanical and electrical performance requirements
Constant Humidity and Heat Resistance Test	Relative humidity $95 \pm 3\%$, test temperature: 40 °C After a continuous exposure for 2 hours, the electrical performance of the test sample should be measured within 5 minutes after taking out. The sample should be tested under normal conditions for 1-2 hours, and the appearance quality should be checked.	The dimension should meet the requirements and meet the mechanical and electrical performance requirements
Vibration Test	Vibration frequency range 10-55HZ, Displacement amplitude: 0.35MM, Acceleration amplitude: 50.0M/S, Frequency sweep cycle times: 30 times	Normal electrical and mechanical performance
Drop Test	Free drop 3 times from a height of 1M along mutually perpendicular axes	Normal electrical and mechanical performance

Connector Parameters:

SMA Connector BOM:

No	Name	Material	Coating	Qty
1	SMA body	Brass with gold coating	D.L2Ni2/Au0.08	1
2	SMA insulator 1	PTFE		1
3	SMA center pin	Brass with gold coating	D. L2N12/Au0.1	1
4	SMA fission	Brass with gold coating	D.L2Ni2/Au0.08	1
5	SMA blanket	TPEE		1
6	Red dust cap	PVC		1

IPEX Connector BOM:

No	Name	Material	Coating	Qty
1	IPEX shell	Brass with gold coating	D.L2Ni2/Au0.08	1
2	IPEX insulator	PTFE		1
3	IPEX center pin	Brass with gold coating	D. L2N12/Au0.1	1