



東莞市亨松電子科技有限公司

Dongguan Hengxin Electronic Technology Co., Ltd.

承認書

客 戶:

品 名:

2.4GHz PCB内置天线

料 號:

HX-P134

客戶料號:

送樣日期:

2026.06.23

客戶確認			供應廠商	
工程	品保	採購	核准	送樣人
			趙 2026.06.23 守 剛	龚银明

地址：東莞市沙田鎮楊公洲楊和路75號

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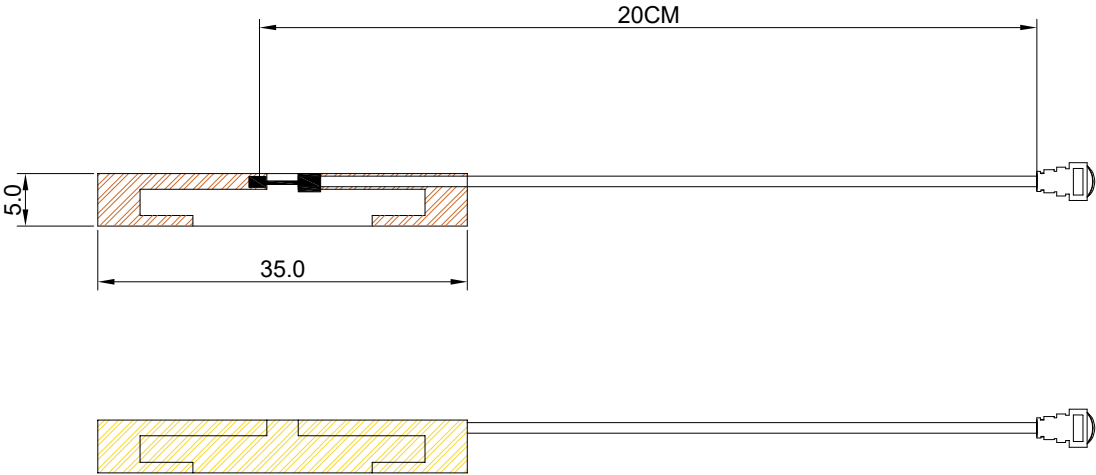
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E-mail:nogps@nogps.com

Http://www.nogps.com

RoHS
Compatible

序号	日期	原因	确认人
B			
C			
D			



后置G9000-SY双面胶

厚度0.7mm

东莞市亨松电子科技有限公司

PART NAME: 2.4G PCB ANT

PART NO.: HX-P134-PEX20CM .W01

DATE: 2020-09-17

APPROVED BY

CHECKED BY

DESIGNED BY

UNITS: mm

Tolerance

赵

张雅军

SCALE: 1/1

X.X ±0.50

2020.09.17

守刚

REVISION:A

X.X ±0.15

X° ±3°

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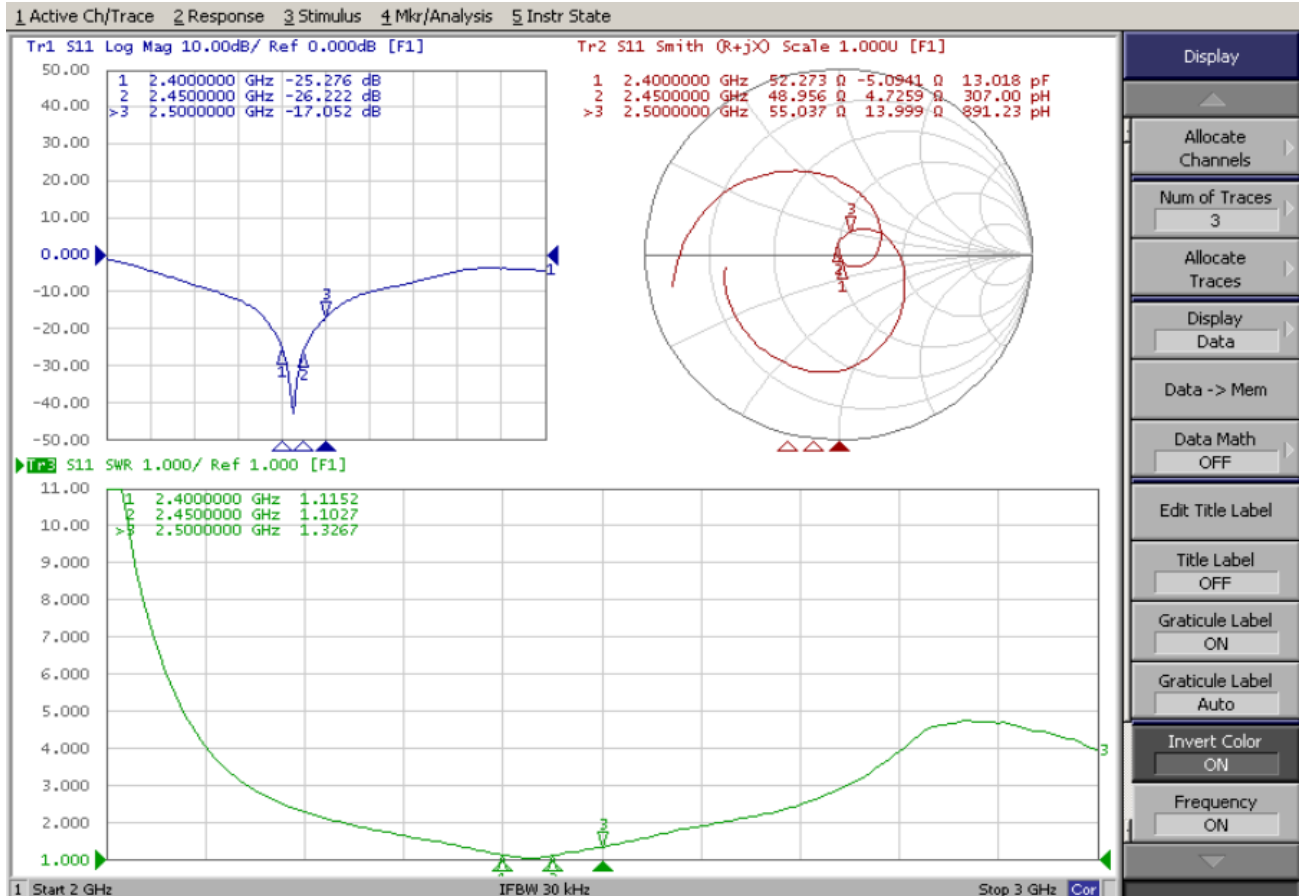
1. Reliability Testing

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.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2. Specification

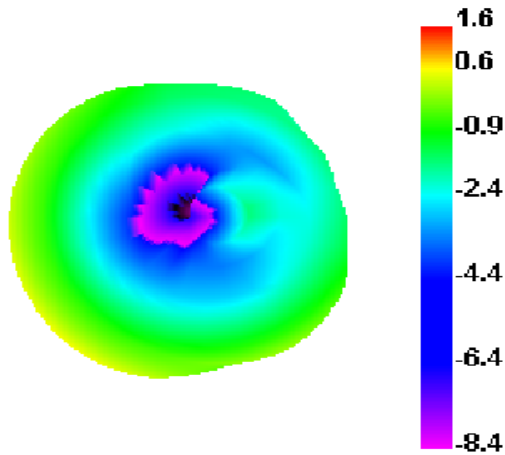
A. Electrical Characteristics	
S.W.R.	2400-2500 MHz: ≤ 2.0
Antenna Gain	1.57 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	IPEX1
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data

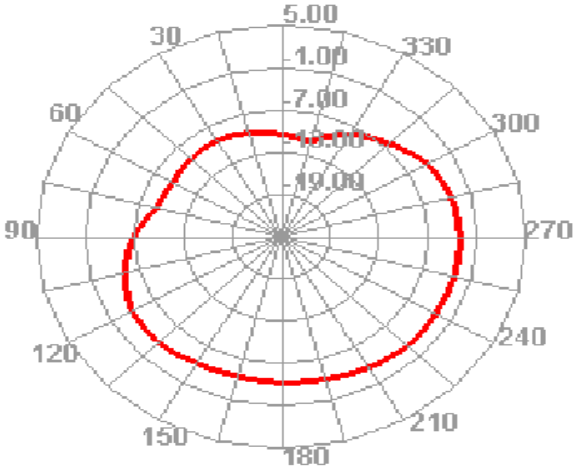


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.61	-4.02	1.57	-0.58	17.533	22.074	1.57	-17.27	5.59	30	45.1	45.07
2410	37	-4.32	1.2	-0.95	16.43	20.572	1.2	-15.29	5.52	30	44.88	44.83
2420	33.61	-4.74	0.98	-1.17	14.527	19.083	0.98	-14.04	5.71	30	44.83	44.71
2430	34.19	-4.66	0.9	-1.25	14.832	19.355	0.9	-14.15	5.56	30	45.16	44.88
2440	32.27	-4.91	0.65	-1.5	13.87	18.398	0.65	-15	5.56	30	45.17	44.94
2450	36.68	-4.36	1.17	-0.98	15.737	20.946	1.17	-17.35	5.53	0	45.89	45.33
2460	35.62	-4.48	1.13	-1.02	15.009	20.615	1.13	-19.33	5.61	0	45.86	45.53
2470	31.57	-5.01	0.81	-1.34	13.013	18.555	0.81	-19.87	5.82	0	45.69	45.39
2480	27.98	-5.53	0.28	-1.87	11.338	16.646	0.28	-20.55	5.81	0	45.73	45.51
2490	30.72	-5.13	0.76	-1.39	12.259	18.465	0.76	-21.95	5.89	0	45.96	45.84
2500	26.98	-5.69	0.04	-2.11	10.682	16.299	0.04	-23.22	5.73	0	45.47	45.3

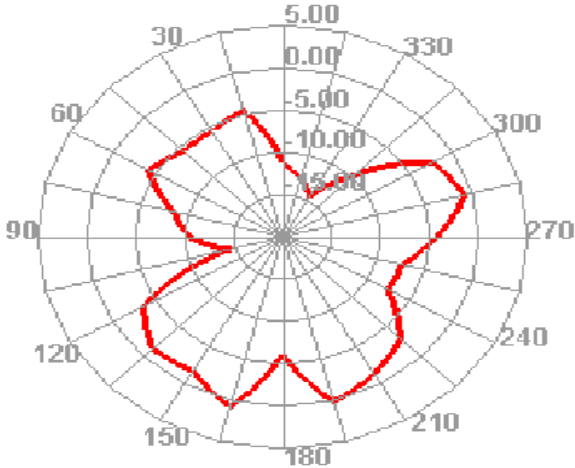
2400.000MHz



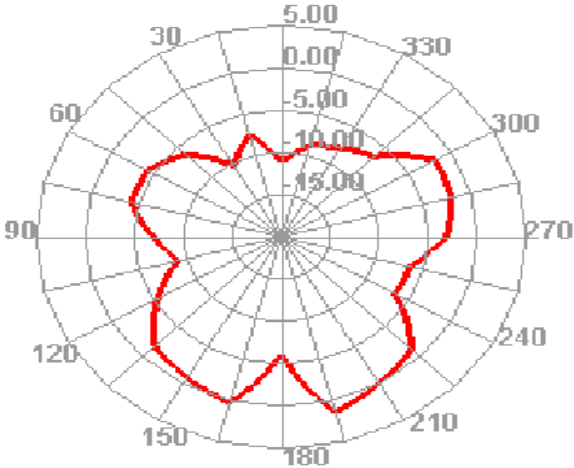
2400.000MHz H



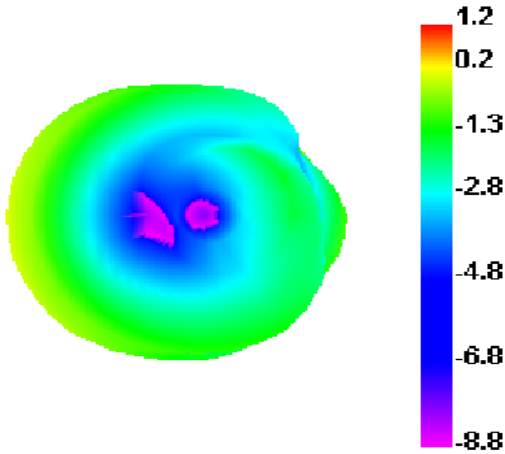
2400.000MHz E1



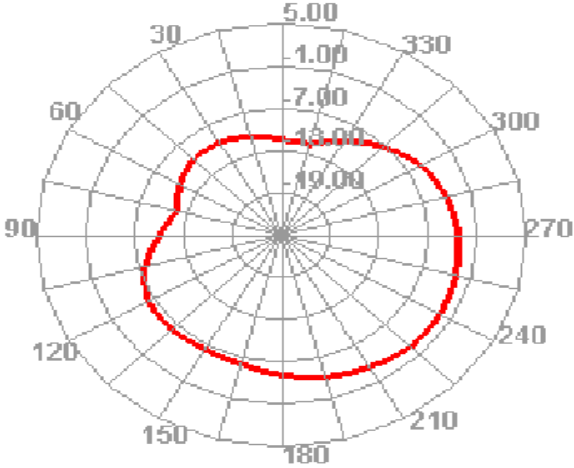
2400.000MHz E2



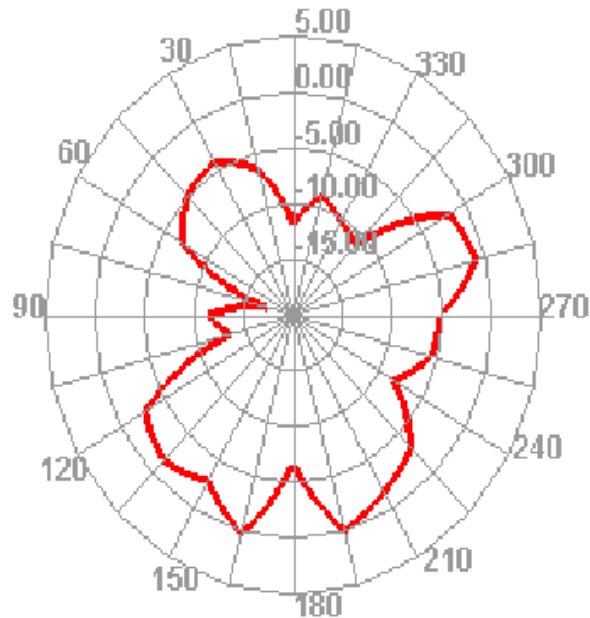
2450.000MHz



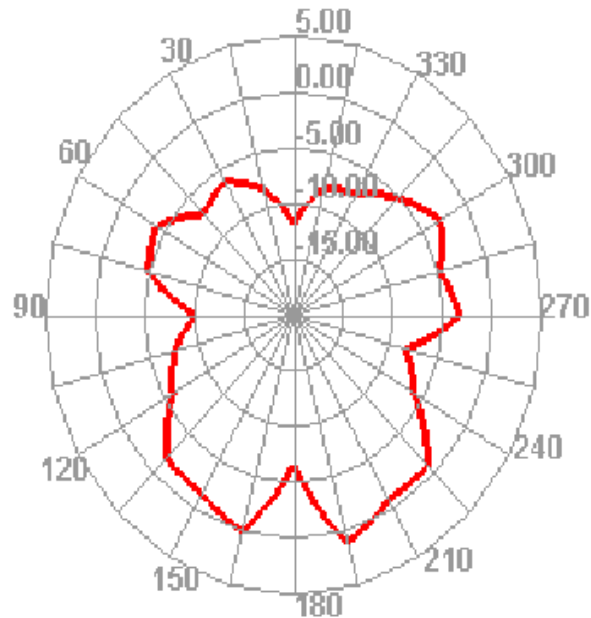
2450.000MHz H



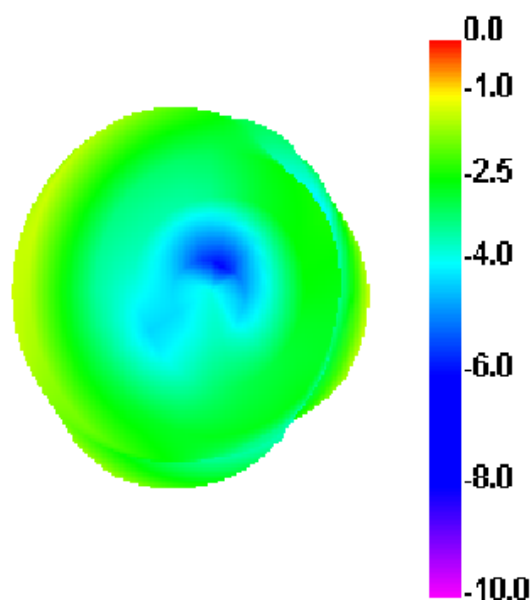
2450.000MHz E1



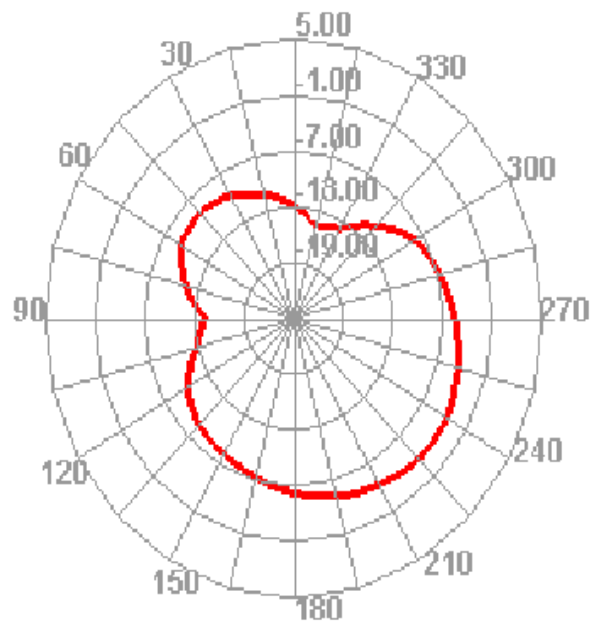
2450.000MHz E2



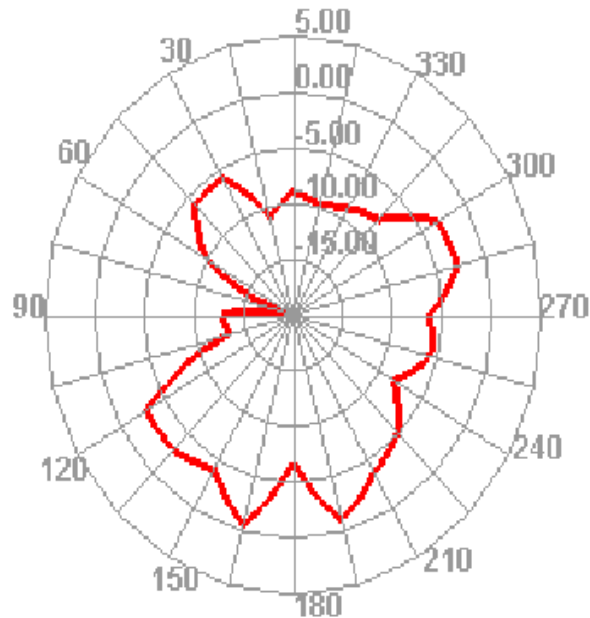
2500.000MHz



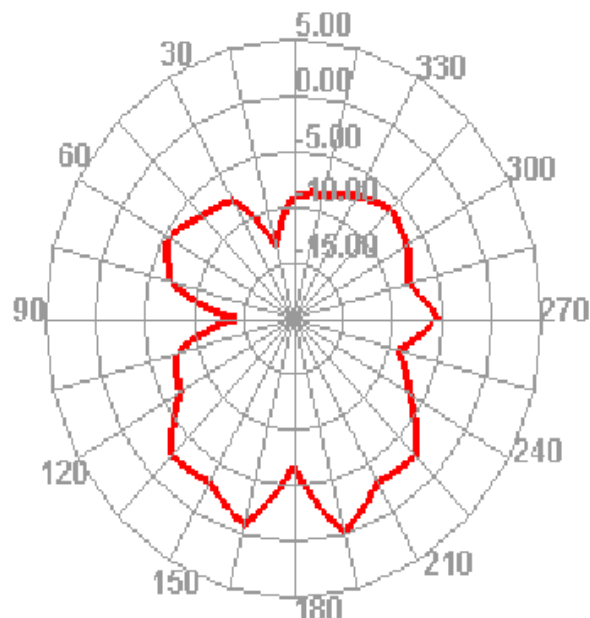
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

