



Suzhou Saixun Communications Technology Co., Ltd.

Specification

CUSTOMER: Dongguan Hongyi Electronics Co., Ltd.

PART NAME: 2.4 GHz PCB Antenna

PART NO: SX-005-1401/60100055 -

Company Approval (SIGNAFUR)	Engineering (CHECKED BY)	QA (TESTED)	Approval Date (DATE)
	Changming WU	Yanhu TUO	2021/07/23
Customer Approval (CUSTOMER APPROVAL)	engineering (CHECKED BY)	QA (TESTED)	Approval Date (DATE)

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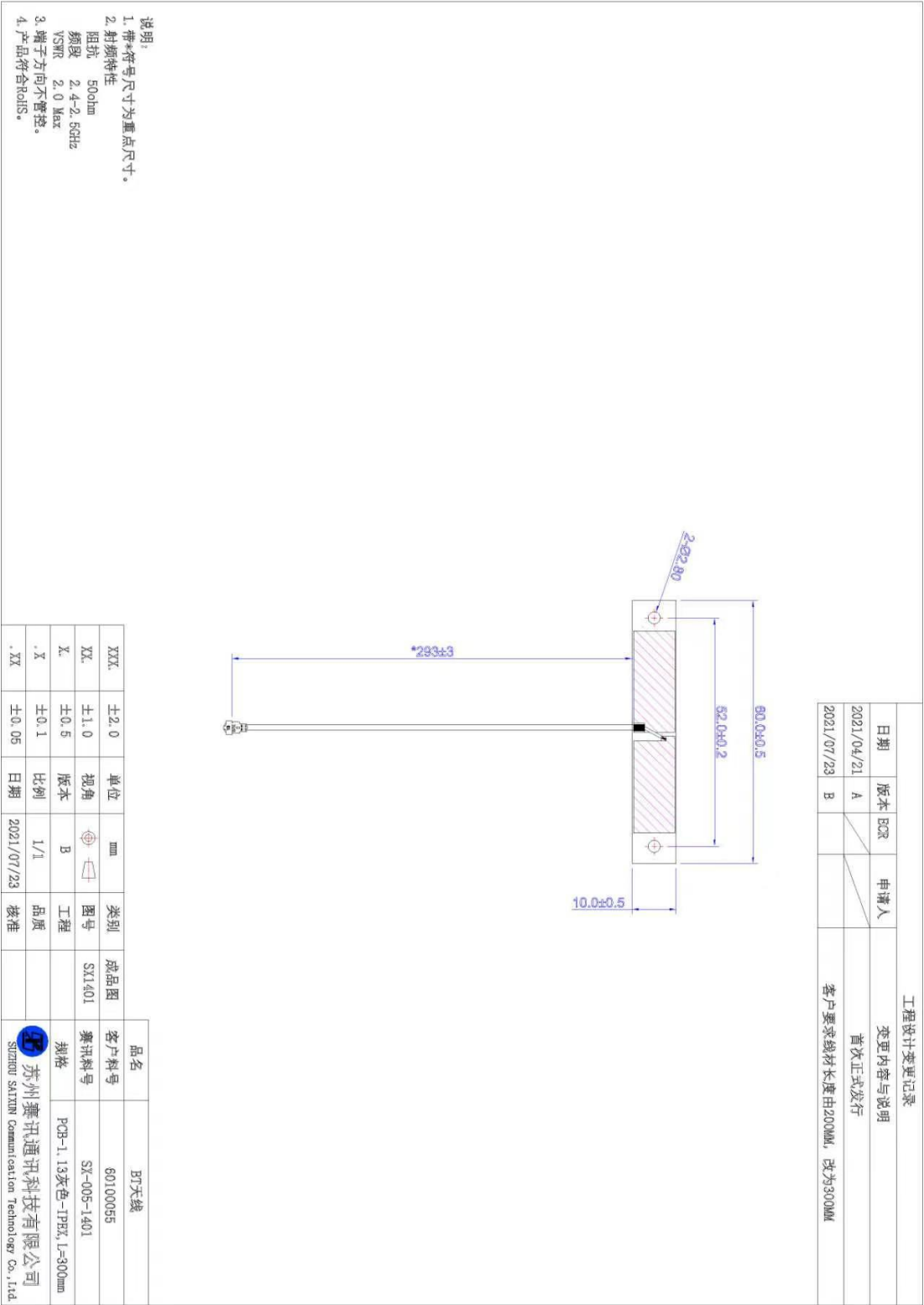


Catalogue

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3. Product drawing





4. Performance parameter

RF parameters	
Frequency range	2.4-2.5GHz
Impedance	50 ohm
Standing wave ratio	2.0 max
Gain	2.0+/-0.5dBi
Productiveness	Refer to the test report.
Directionality	omnidirectional
Direction of polarization	Vertical/Horizontal
Structural style	N/A
Mechanical parameters	
Feeder length	300mm
Connector	I-PEX (Domestic)
Installation site	Machine External
Feeder line	RG/1.13 Gray Coaxial Cable
Connection Method	PEX board end
Environment Properties	
working temperature	-40°C ~ 85°C
storage temperature	-30°C ~ 60°C

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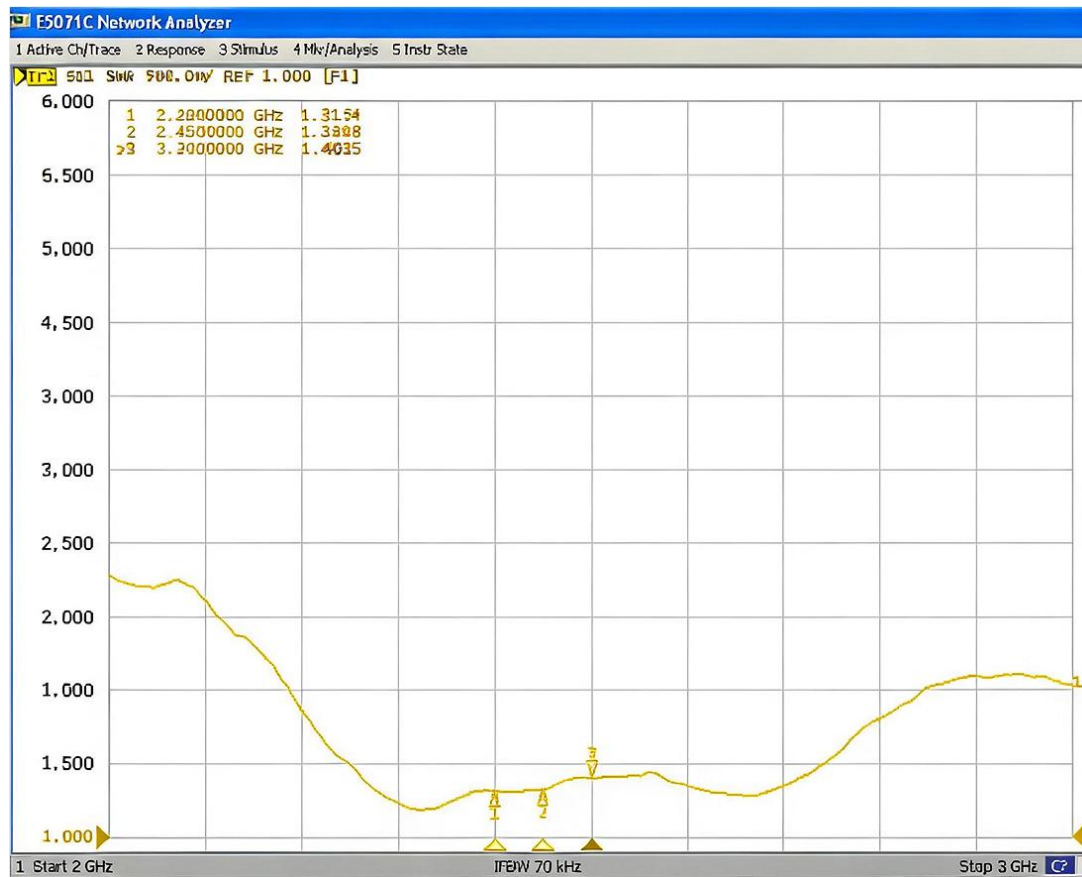
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5. Test Report

5.1 VSWR:



5.2 Gain and Efficiency



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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
Efficiency (dBi)	-1.89	-2.09	-2.23	-2.22	-2.15	-2.20	-2.39	-2.48	-2.41	-2.30	-2.19
Gain (dBi)	2.42	2.30	2.19	2.22	2.36	2.44	2.27	2.17	2.16	2.15	2.16
Efficiency (%)	64.70	61.74	59.86	59.95	60.89	60.32	57.62	56.53	57.37	58.92	60.45

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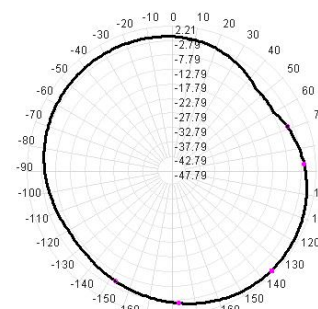
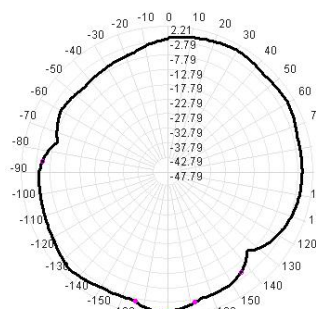
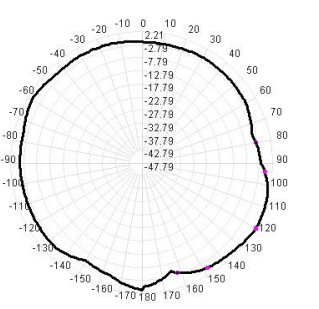
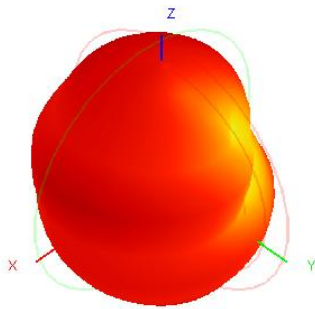


2400.0MHz H+V, Eff: 64.7%

2400.0MHz Total(E1-XZ), Max= 2.21dBi

2400.0MHz Total(E2-YZ), Max= 0.97dBi

Total(H-XY), Max= 0.85dBi, CirD=8.07

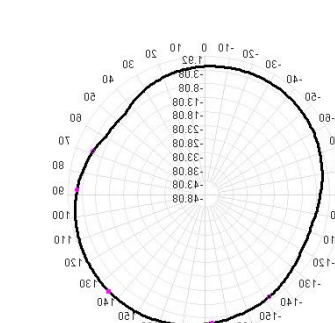
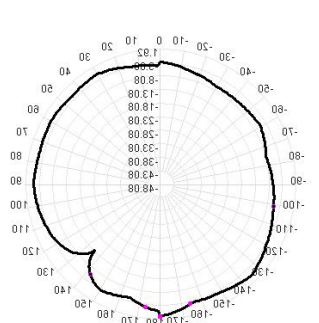
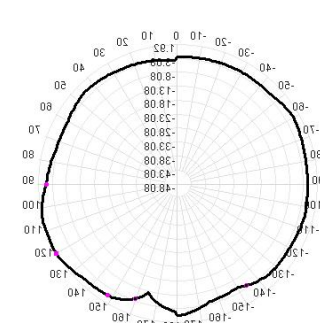
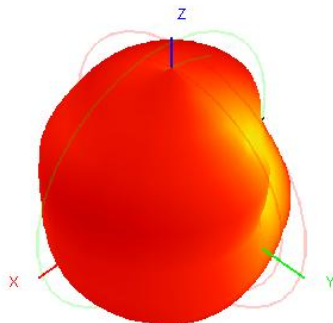


2450.0MHz H+V, Eff: 60.3%

2450.0MHz Total(E1-XZ), Max= 1.92dBi

2450.0MHz Total(E2-YZ), Max= 0.44dBi

Total(H-XY), Max= 1.51dBi, CirD=9.65

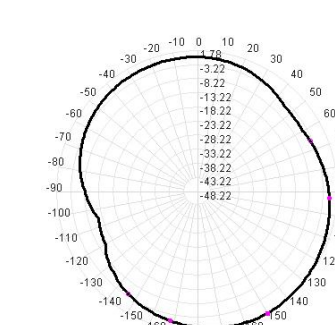
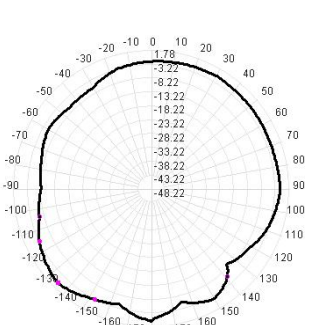
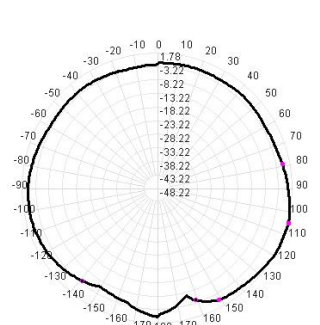
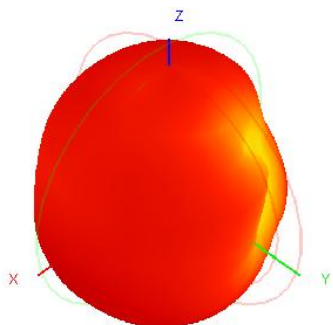


2500.0MHz H+V, Eff: 60.4%

2500.0MHz Total(E1-XZ), Max= 1.78dBi

2500.0MHz Total(E2-YZ), Max= -0.39dBi

Total(H-XY), Max= 1.66dBi, CirD=13.58



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