



Specification

CUSTOMER: Dongguan Hongyi Electronics Co., Ltd.

PART NAME: 2.4 GHz PCB Antenna

PART NO: SX-006-1401/60100053 -

Company Approval (SIGNAFUR)	engineering (CHECKED BY)	QA (TESTED)	Approval Date (DATE)
	Yanhu TUO	Cherry HU	2026/06/22
Customer Approval (CUSTOMER APPROVAL)	engineering (CHECKED BY)	QA (TESTED)	Approval Date (DATE)

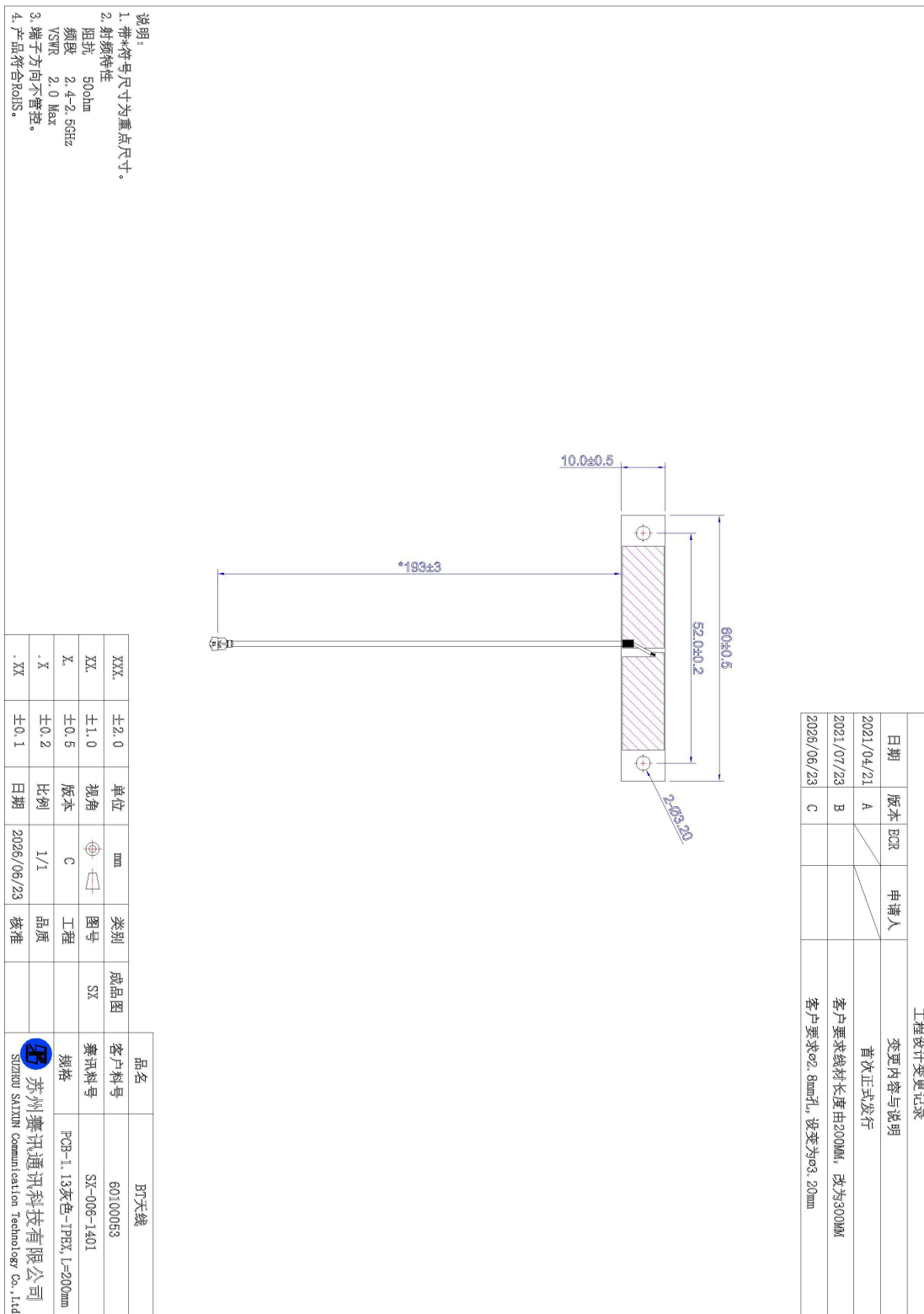


Catalogue

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3. Product drawing



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4. Performance parameter

RF parameters	
Frequency range	2400-2500MHz
Impedance	50 ohm
Standing wave ratio	2.0 max
Polarization mode	Horizontal/Vertical
Gain	2.0dBi +/-0.5 dBi
Directionality	omnidirectional
Mechanical Properties	
Antenna Housing	not have
Connector	I-PEX (Domestically Produced)
Feeder specifications	1.13 mm coaxial cable
Outline dimension	10*60mm
Connection Method	I-PEX board end
Operate mode	N/A
Antenna oscillator	PCB
Environment Properties	
Working temperature	-40°C ~ 85°C
Storage temperature	-30°C ~ 60°C

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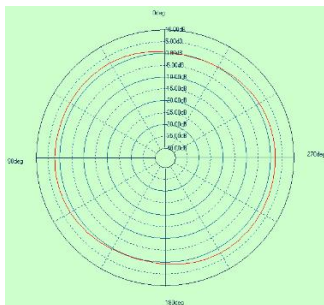


5. Test report

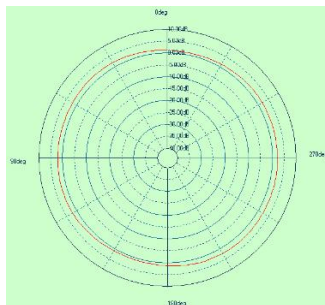
5.1 2D patterns

X-Y Plane

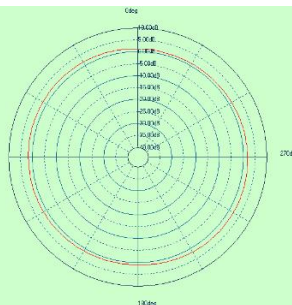
2400



2450

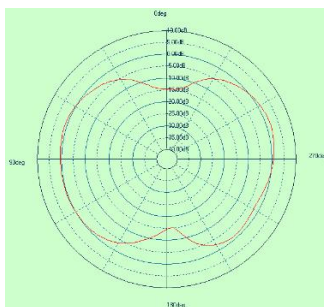


2500

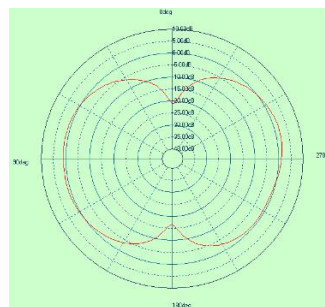


X-Z Plane

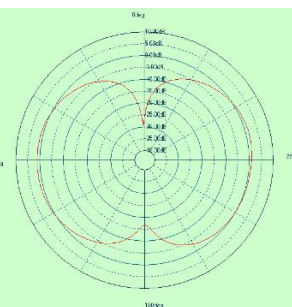
2400



2450

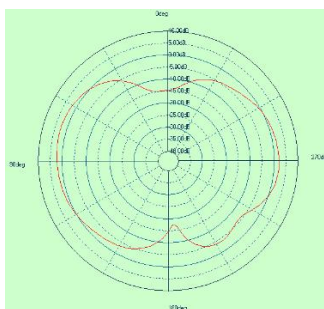


2500

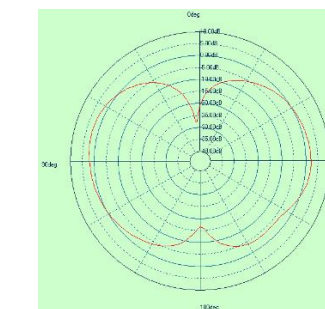


Y-Z Plane

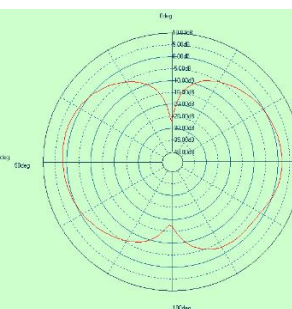
2400



2450



2500



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5.2 Return Loss



5.3 3D Peak Gain & Efficiency

Frequency	Efficiency(%)	peak Gain(dBi)
2400MHz	77.45	2.22
2410MHz	78.56	2.25
2420MHz	79.94	2.31
2430MHz	79.61	2.24
2440MHz	79.81	2.22
2450MHz	78.58	2.11
2460MHz	77.24	1.95
2470MHz	73.43	1.68
2480MHz	71.64	1.68
2490MHz	73.53	1.58
2500MHz	75.09	1.60

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