

Manufacturer:Caddx Technology (Shenzhen) Co., Ltd.

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Data Sheet

Product : 2.4G antenna

Date: Jun 15, 2024

Customer Applied model			
Customer			
Customer Part No.			
Product Description	2.4G Antenna		
Supplier	YunDuan		
Supplier Part No.	SX-037-2101		
Customer	By designed	By Checked	By Approval

Catalogue

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Electrical Properties

Mechanical Properties

Environment Properties

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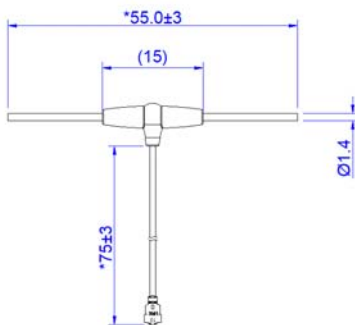
Revision History

Revision No.	Originator	Description of changes	Date of changes
1	Yanhu Tuo	First document	Jun 15, 2024
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

1 General

Electrical Properties	
Frequency	2.4-2.5GHz
VSWR	≤ 2.0
Efficiency	$\geq 60\%$
Radiation Pattern	Omni-Directional
Polarization	V/H
Antenna Type	Dipole/T Type
Mechanical Properties	
Antenna Dimension	55 mm
Connector Type	I-PEX
Cable Type	RF-1.13
Cable Length	75 mm
Environment Properties	
Operational Temperature	-40°C ~ +85°C
Storage temperature	-30°C ~ +60°C

2 Antenna DRAWING



3 Test Data (only test the antenna separately)

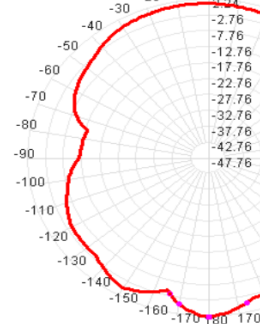
3.1 Gain and Efficiency

Frequency ID	1	2	3
Frequency (MHz)	2400	2450	2500
Efficiency (dBi)	-1.41	-1.61	-1.85
Gain (dBi)	2.64	2.68	2.34
Efficiency (%)	72.27	68.95	65.33

3.2 Radiation pattern

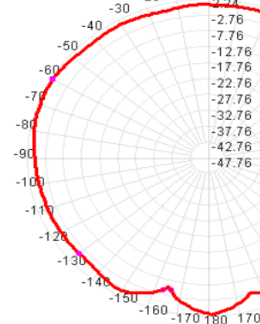
2500.0MHz Total(E1-XZ), Max= 2.24dBi

2500.00MHz



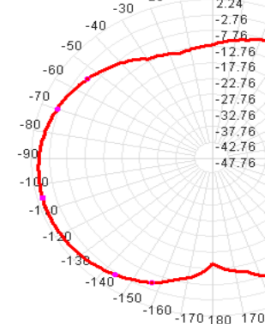
2500.0MHz Total(E2-YZ), Max= 1.75dBi

2500.00MHz



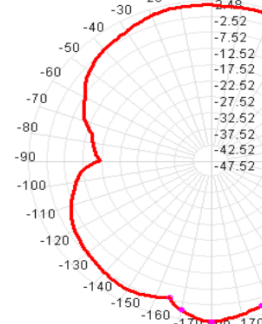
Total(H-XY), Max= 0.74dBi, CirD=15.30

2500.00MHz



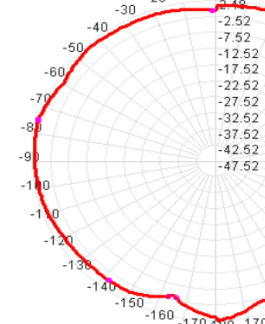
2400.0MHz Total(E1-XZ), Max= 2.48dBi

2400.00MHz



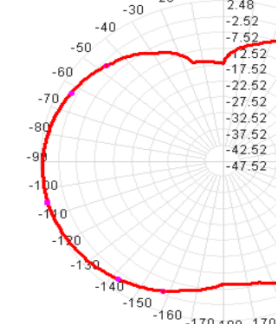
2400.0MHz Total(E2-YZ), Max= 2.40dBi

2400.00MHz



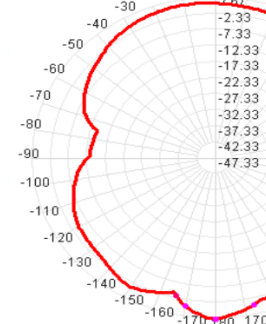
Total(H-XY), Max= 2.03dBi, CirD=19.21

2400.00MHz



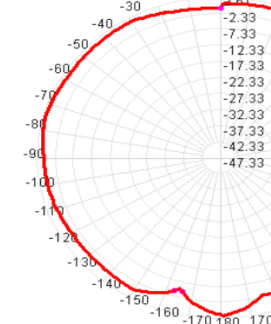
2450.0MHz Total(E1-XZ), Max= 2.67dBi

2450.00MHz



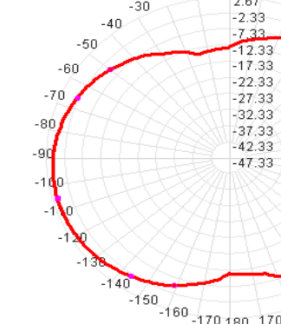
2450.0MHz Total(E2-YZ), Max= 2.14dBi

2450.00MHz



Total(H-XY), Max= 1.23dBi, CirD=15.41

2450.00MHz



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