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EA220 dock SDR & Bluetooth Antenna  
Datasheet

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## Revision history

Version	Change notes	Modifier	Date
V1.0		Weaver.peng	2023.06.05

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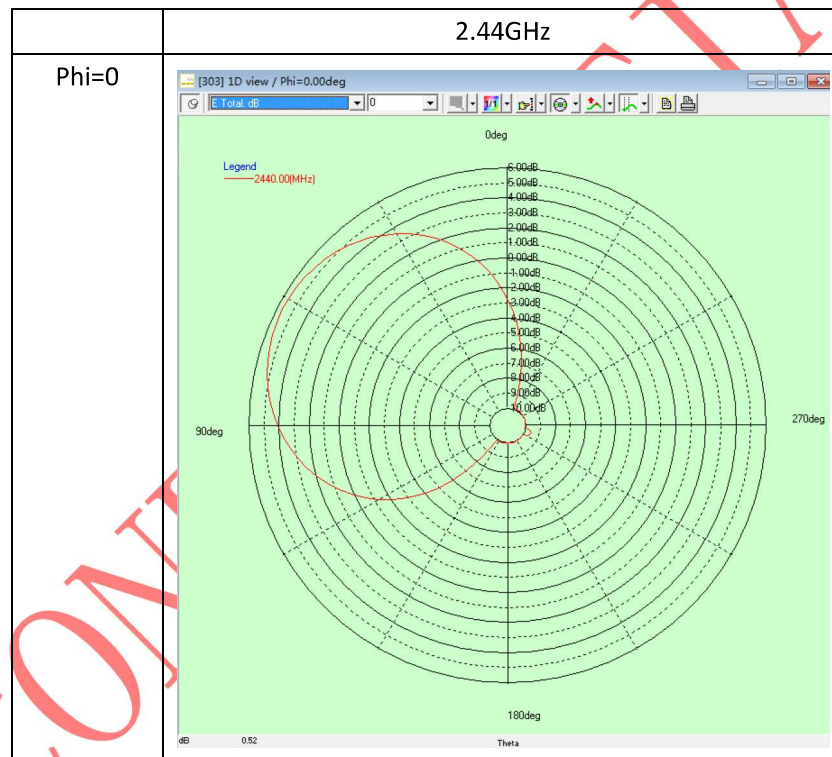
## 1.DOCK SDR Antenna0 ~ Antenna 3

### 1.1 Basic Specifications

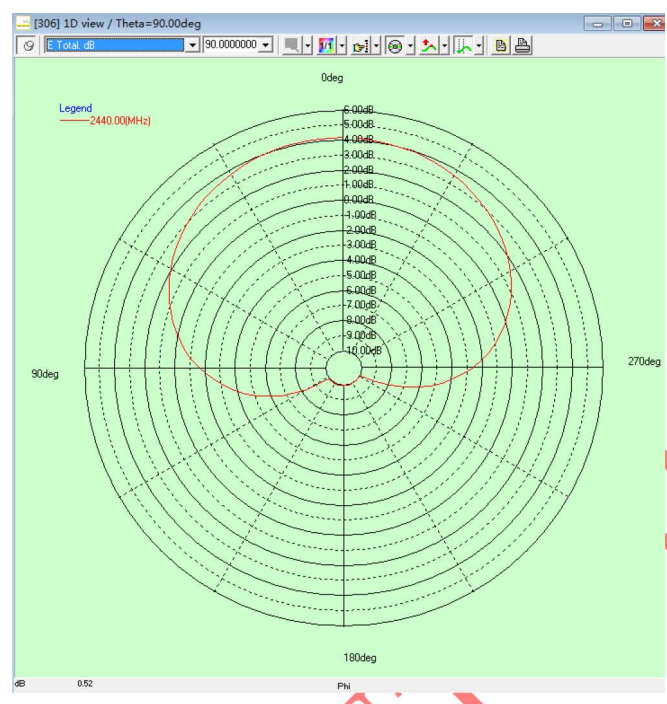
No.	Specification	Descriptions	Notes
1	Antenna Name	SDR Antenna	Ant0 、 Ant1、 ANT2、 ANT3
2	Manufacturer	Kunshan Ruixiang Xun Communication Technology Co., LTD	Address: No.1689 Zizhu Road, Yushan Town, Kunshan City, Jiangsu Province
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.875GHz	
4	Connector Type	SMA	
5	Impedance	50ohm	
6	Gain (MAX)	ANT 0 3.8dBi@2.4~2.483GHz 4dBi@5.725~5.875GHz ANT 1 3.9dBi@2.4~2.483GHz 4.5dBi@5.725~5.875GHz ANT 2 4.2dBi@2.4~2.483GHz 4.5dBi@5.725~5.875GHz ANT 3 4.1dBi@2.4~2.483GHz 4.2dBi@5.725~5.875GHz	

7	Efficiency	$\geq 50\%$	
8	VSWR	$\leq 2$	
9	Antenna Type	Linear polarization Dipole	
10	3dB Beamwidth	Omnidirectional horizon	
11	Weight	2g	

## 1.2 radiation pattern

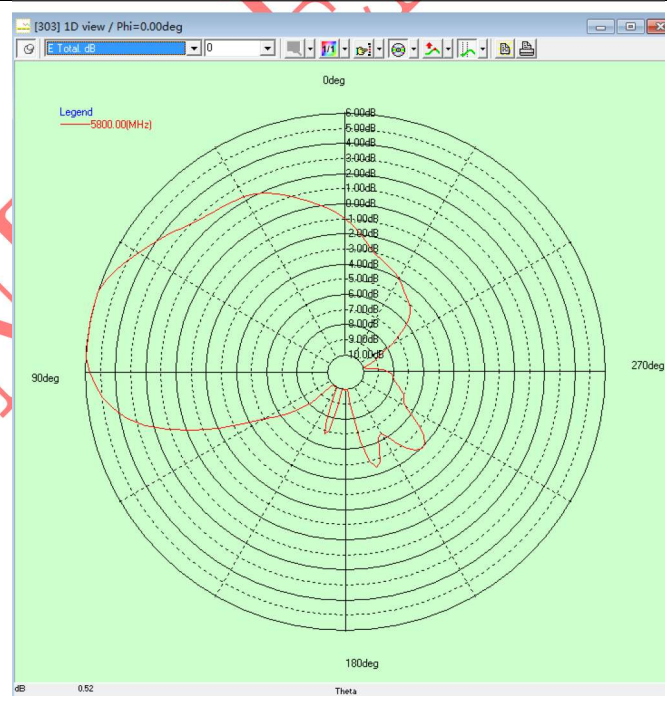


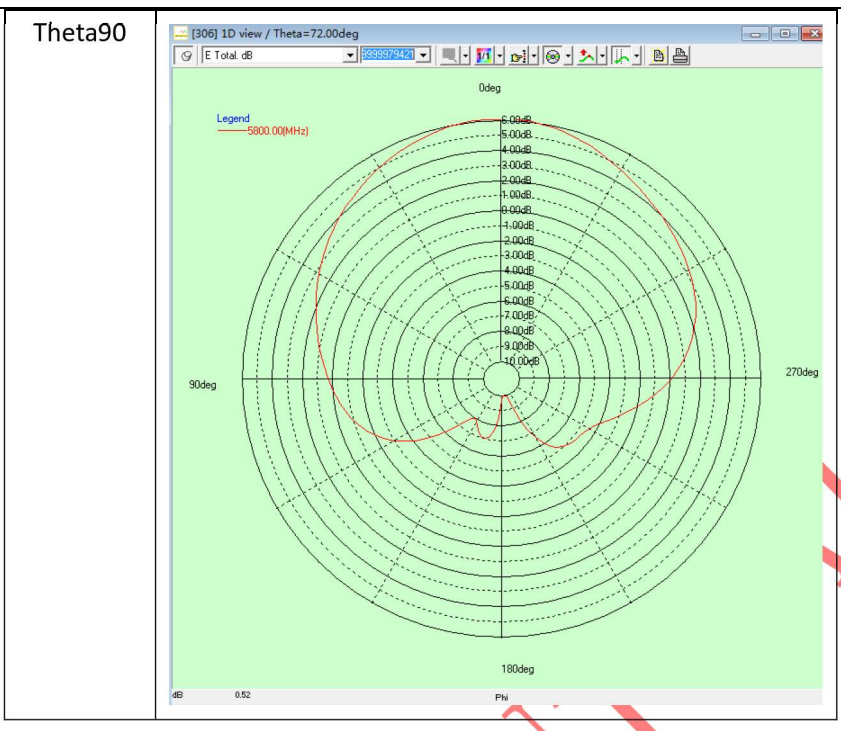
Theta90



Phi=0

5.8Hz





### 1.3 Structure drawing

Ant0 、 Ant1、 ANT2、 ANT3:



## 2. Bluetooth Antenna

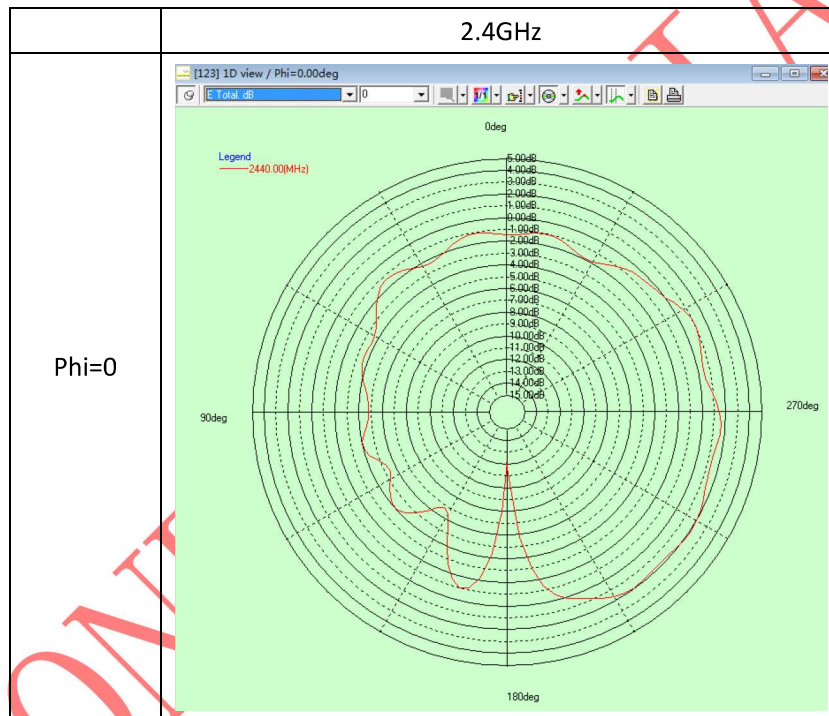
### 2.1 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name	Bluetooth Ant	/
2	Manufacturer	Hebang Electronics (Suzhou) Co., LTD	5 Chunqiu Road, Xiangcheng District, Suzhou City, Jiangsu Province, China
3	Operation		
	Frequency	2.4~2.483GHz;	
4	Connector Type	IpeX1	
5	Impedance	50ohm	
6	Gain (MAX)	3.3dBi@2.4~2.483GHz	
7	Efficiency	$\geq 40\%$	
8	VSWR	$\leq 2$	
9	Antenna Type	Linear polarization Dipole	
10	3dB Beamwidth	Omnidirectional horizon	
11	Weight (with cable)	1g	

## 2.2 Gain

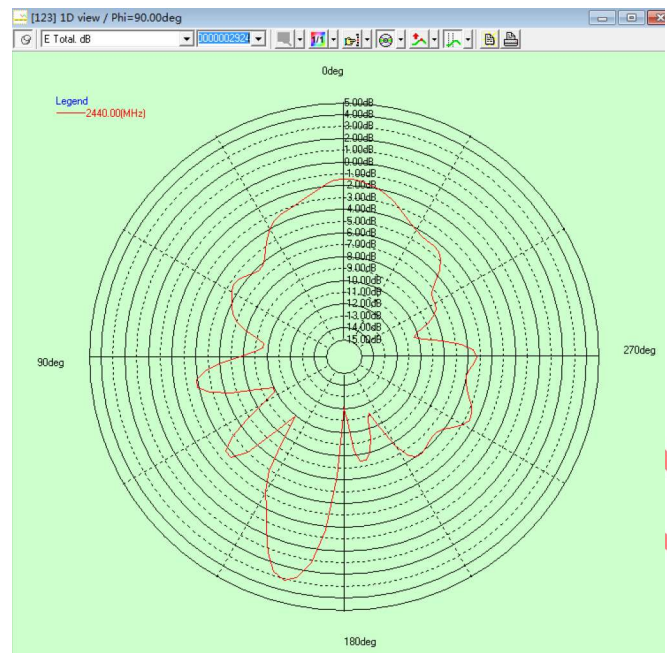
Frequency	E Total. dB(dBm)
2400MHz	3
2440MHz	3.3
2480MHz	2.9
2500MHz	2.8

## 2.3 radiation pattern





Phi=90



Theta=90

