

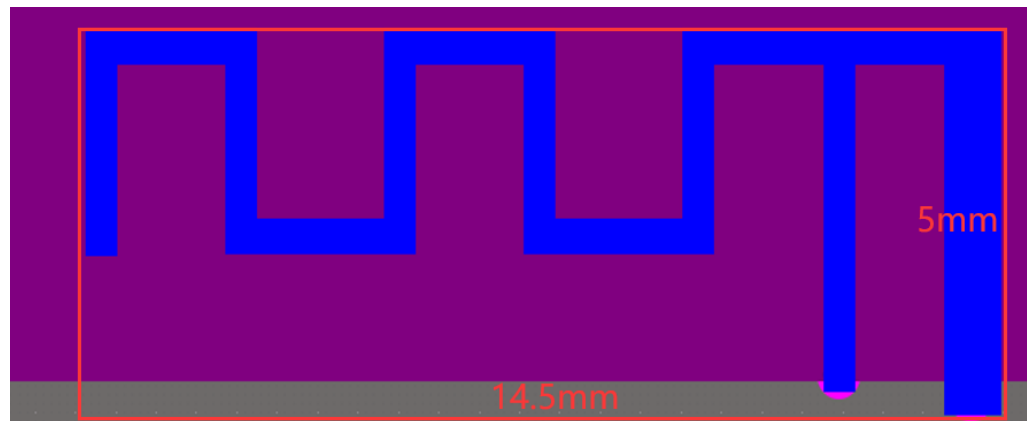
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500GHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	0	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	1.0%	
Gain (dBi)	1.68dBi	
Maximum Power (dBm)	0 (XY-plane)	
Minimum Power (dBm)	0(XY-plane)	
Avg. Power (dBm)	0(XY-plane)	
Input Impendence(ohm)	50	
Polarization Type	V ertical & Horizontal	
V . S . W . R	< 6	
Antenna Type	PCB Antenna	

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board

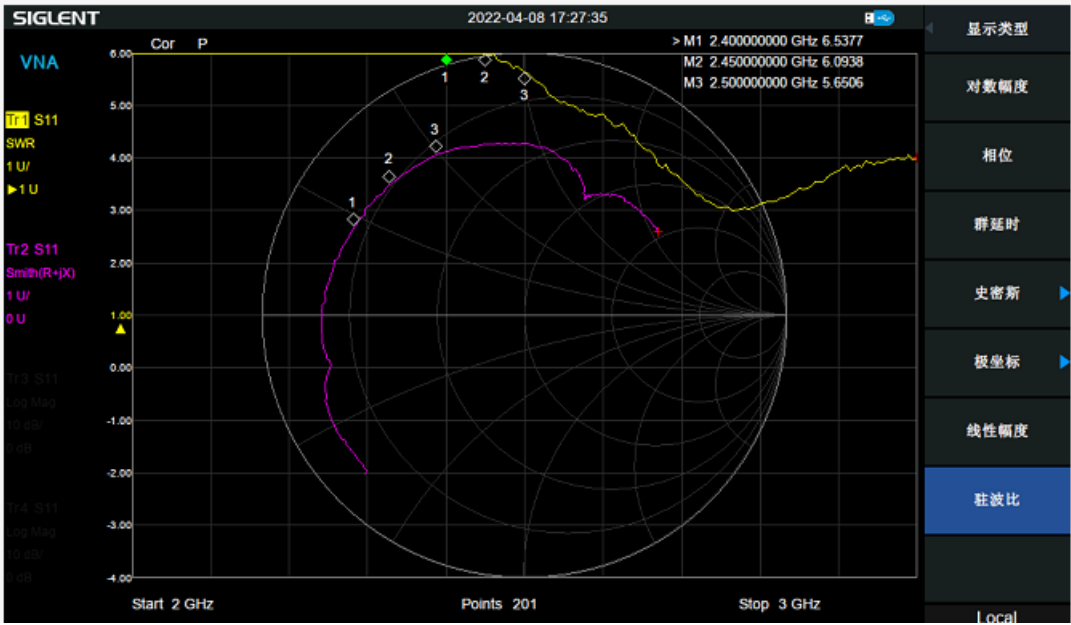


Antenna Gain

Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.35	-0.48	1.68	-3.83	1.11	-2.99	1.0%

Return Loss



Far-field Power Distribution(H+V) on X-Y Plane
 Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dB @2.44000 GHz

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.68 dBi, Plot AvgGain(H+V)= -3.83dBi @2.40000 GHz

This polar plot shows the radiation pattern of the antenna in the X-Z plane. The radial distance from the center represents the gain in dBi, with concentric circles marked at -10, -20, -30, -40, and -50. The angular scale is in degrees, ranging from 0 to 360 in 15-degree increments. The plot shows a main lobe centered at 0 degrees with a peak gain of approximately -10 dBi. There are also side lobes, with the largest one at approximately 180 degrees reaching about -30 dBi. The average gain is -3.83 dBi.

Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 1.11 dBi, Plot AvgGain(H+V)= -2.99dBi @2.44000 GHz

This polar plot shows the radiation pattern of the antenna in the Y-Z plane. The radial scale represents gain in dBi, ranging from -40 to 0. The angular scale represents the direction in degrees, from 0 to 345. The plot shows a main lobe centered at 0 degrees with a peak gain of 1.11 dBi. There are side lobes at approximately 45 and 315 degrees, and a null at 180 degrees.

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