

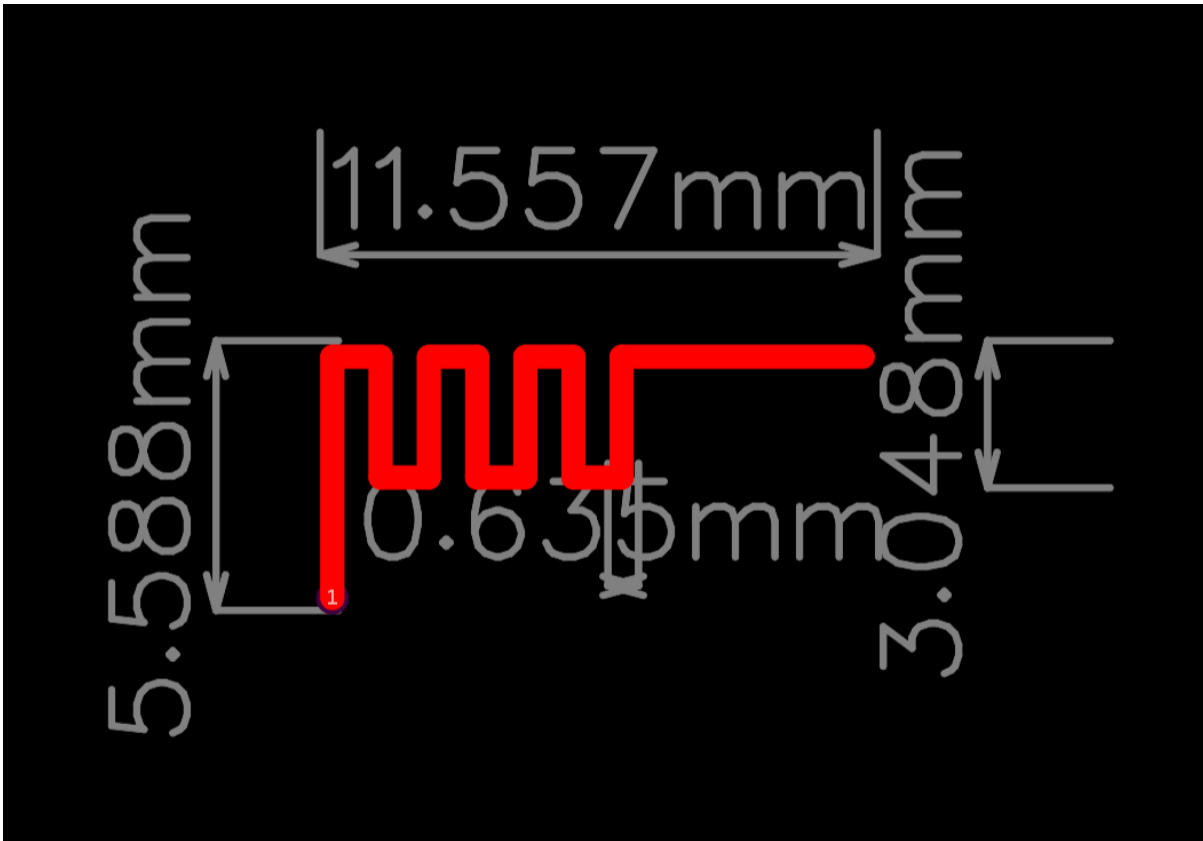
Product specification

Quick Reference Data

| | | |
|----------------------------|------------------------------------|--|
| | 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 dBi | |
| Directivity (dBi) | 1 (all direction antenna) | |
| Efficiency (dB) | 1.0% | |
| Gain (dBi) | 0 (Avg Gain XY-plane) | |
| Maximum Power (dBm) | 0 (XY-plane) | |
| Minimum Power (dBm) | 0(XY-plane) | |
| Avg. Power (dBm) | 0(XY-plane) | |
| Input Impendence(ohm) | 50 | |
| Polarization Type | Vertical & Horizontal | |
| V.S.W.R | <6 | |

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

Antenna Layout

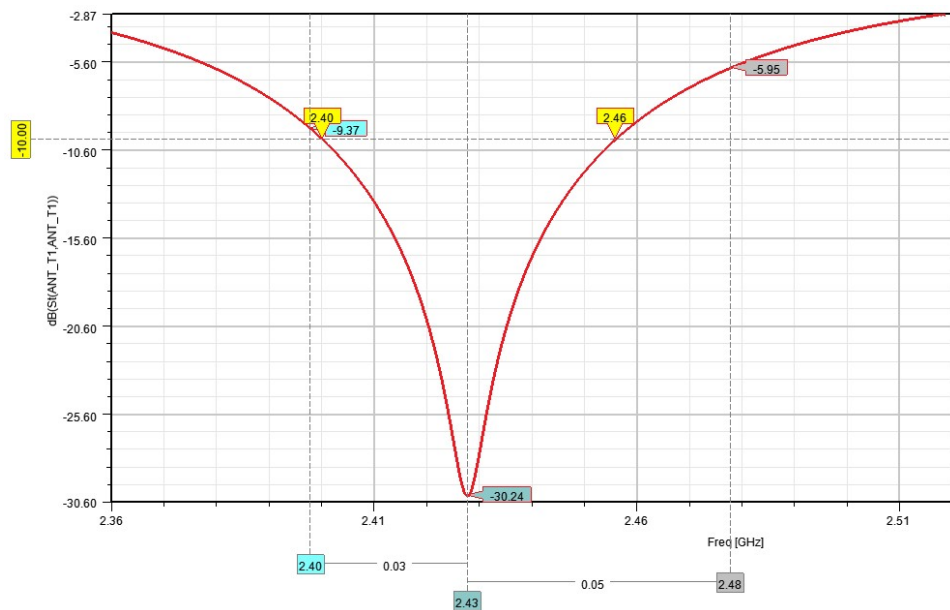


Unit: mm

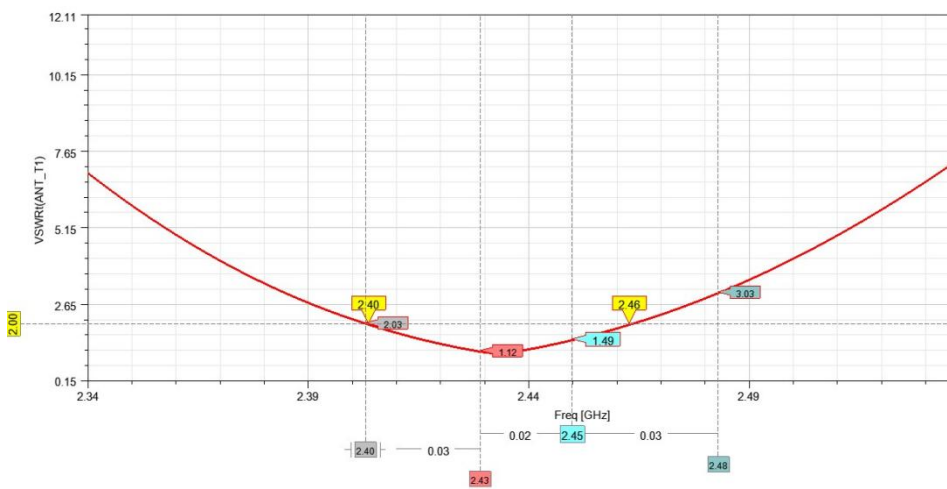
Antenna Gain

| Unit in dBi @2.44GHz | XY-plane | | XZ-plane | | YZ-plane | | Efficiency |
|----------------------|----------|-------|----------|-------|----------|-------|------------|
| | Peak | Avg. | Peak | Avg. | Peak | Avg. | |
| Module Board | 0.00 | -2.51 | -1.25 | -3.45 | -0.98 | -2.87 | 75.8% |

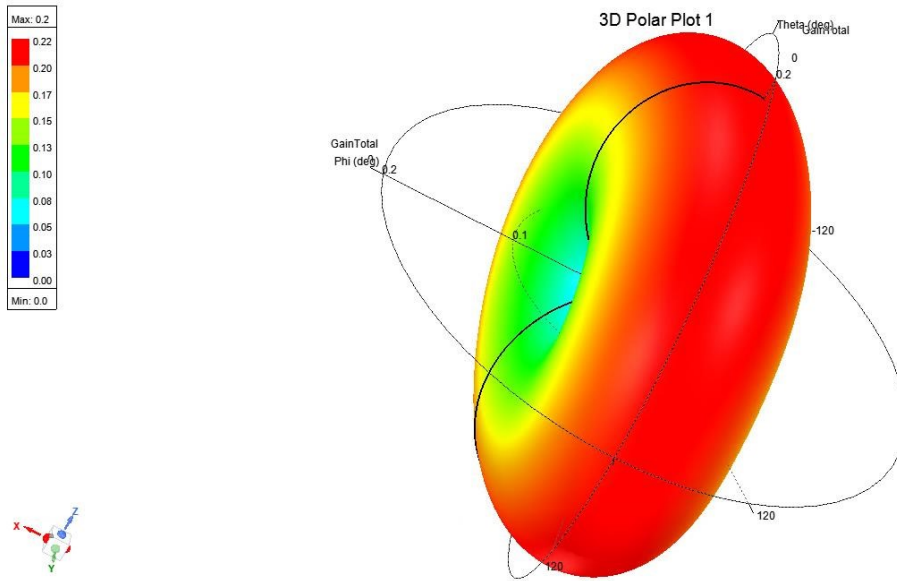
Return Loss



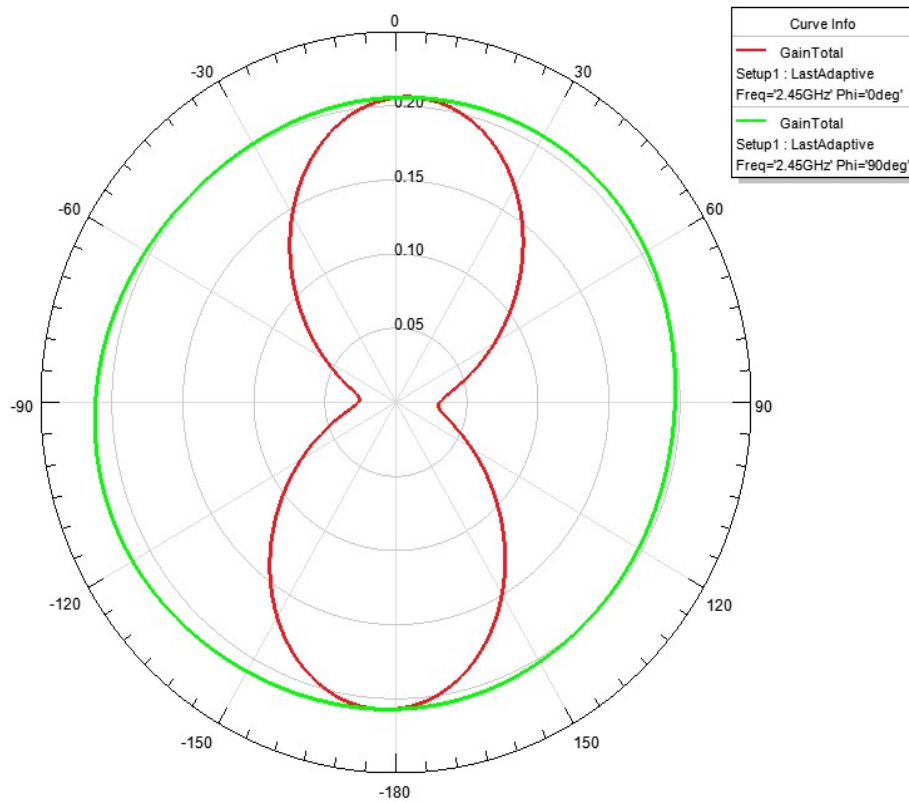
VSWR



3D radiation pattern diagram



2D radiation pattern diagram

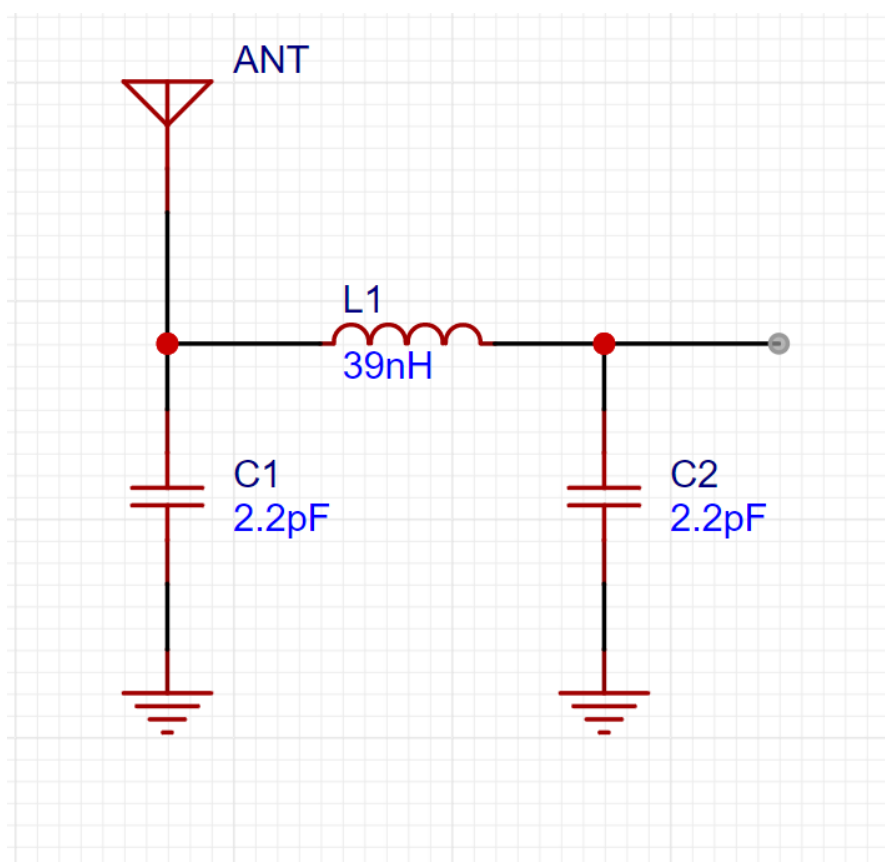


Quick Reference Data-TEST

| | 2.4G | 2.45G | 2.5G |
|-------------------|-----------------|-----------------|-----------------|
| Return Loss -TEST | -9.1777dB | -15.854dB | -10.934dB |
| VSWR-TEST | 2.0647 | 1.3791 | 1.8027 |
| Impedence-TEST | 41.834 Ω | 36.292 Ω | 50.699 Ω |

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

Matching circuit

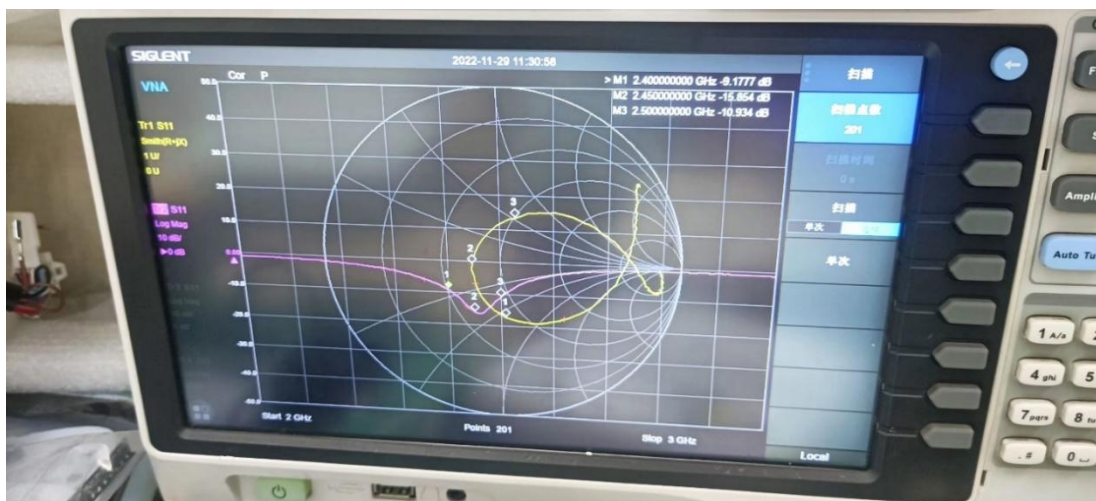


Return Loss - TEST

2.4G: -9.1777dB;

2.45G: -15.854dB;

2.5G: -10.934dB。



VSWR-TEST

2.4G: 2.0647;

2.45G: 1.3791;

2.5G: 1.8027。



Impedence

2.4G: 41.834Ω, -32.899Ω 2.0162pF;

2.45G: 36.292Ω , -1.0842Ω 59.915pF ;

2.5G: 50.699Ω , 30.091Ω 1.9157nH 。

