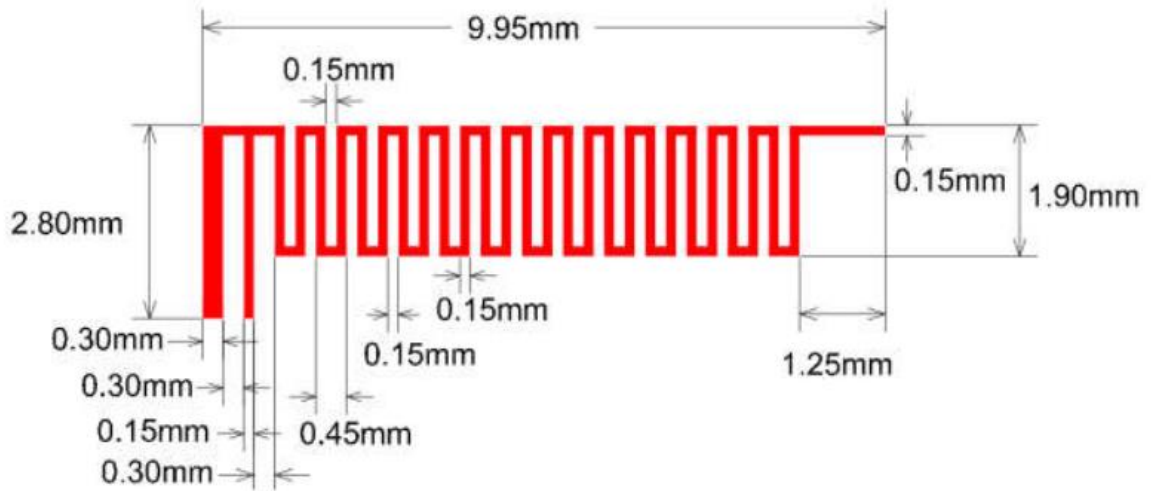


On-board Antenna Datasheet

1. On-board antenna detailed size specifications:



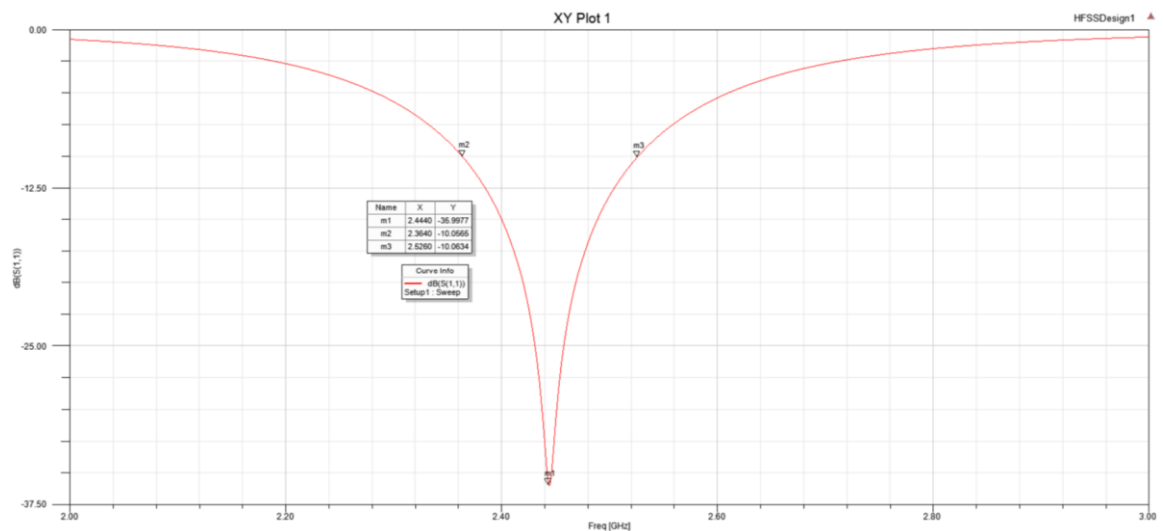
2. Features

- Ultra-small size: 2.8*9.95mm
- 50 ohm impedance
- Maximum gain: 2.3dBi
- Operates in the 2.4GHz band
- Manufacture: Nanjing Qinheng Microelectronics Co., Ltd

3. Antenna S parameter

10dB operating bandwidth: 156MH

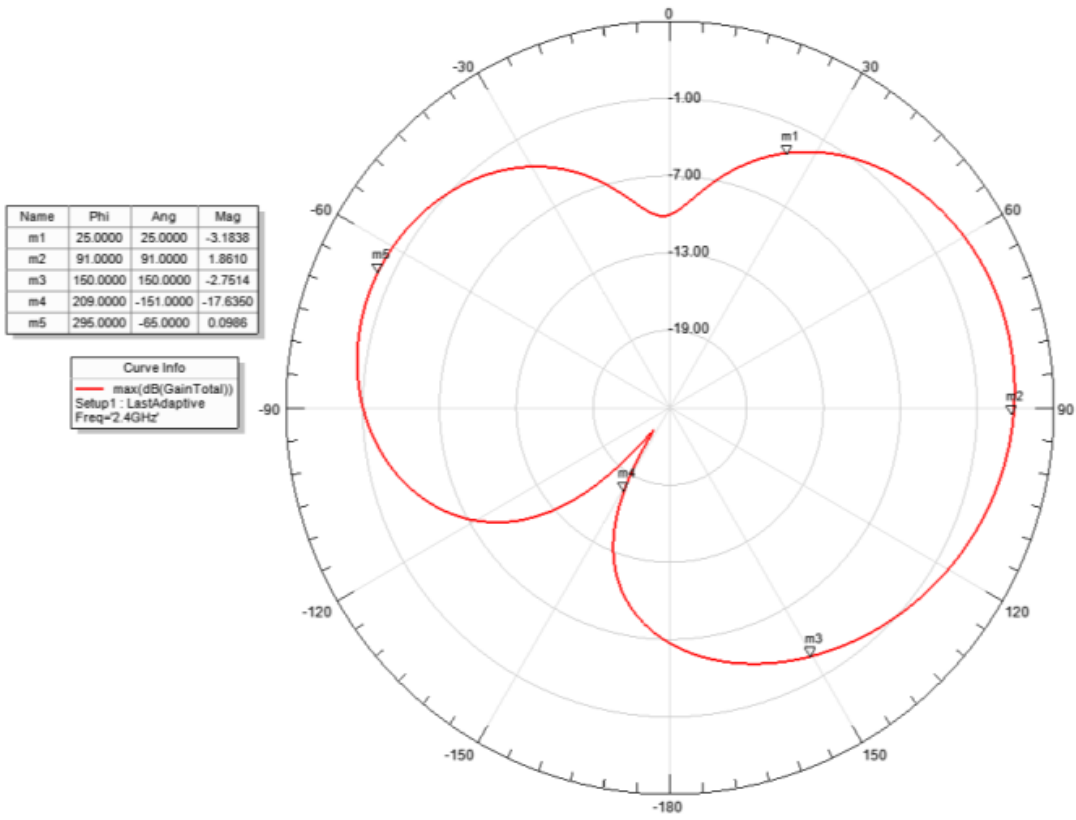
Center band S11:-36dB@2.44GHz



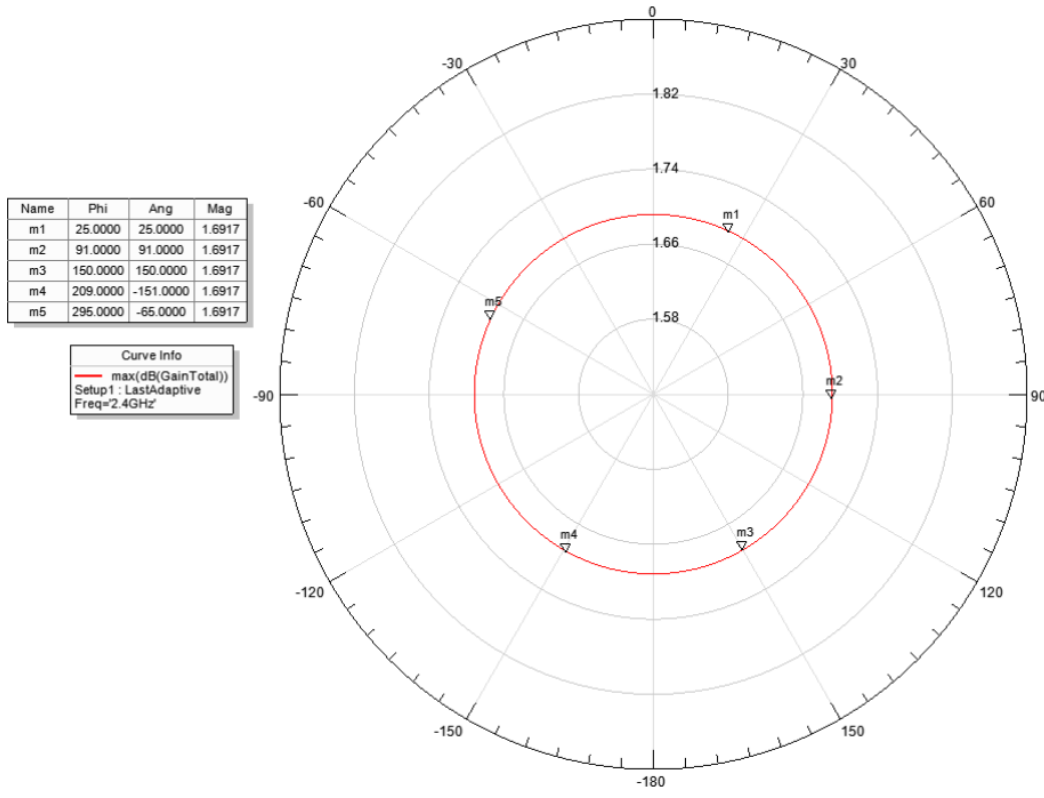
4. Antenna gain

2.4GHz: Maximum gain of 2dBi

E-Side:



H-side:

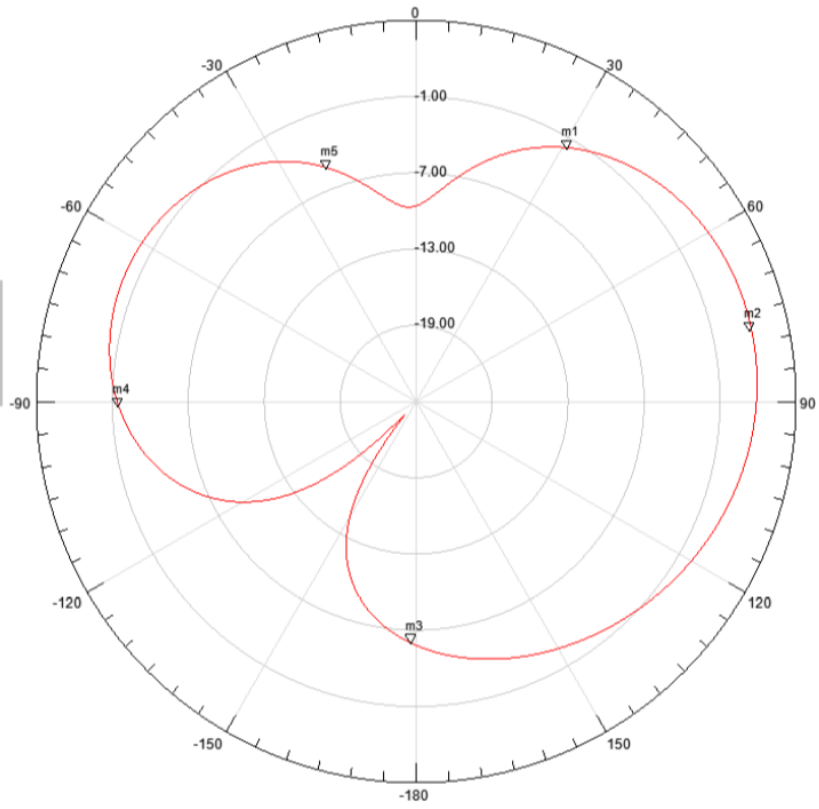


2.44GHz: Maximum gain of 2dBi

E-side

Name	Phi	Ang	Mag
m1	31.0000	31.0000	-1.7163
m2	78.0000	78.0000	2.0835
m3	181.0000	-179.0000	-5.9572
m4	269.0000	-91.0000	-1.5168
m5	339.0000	-21.0000	-5.2973

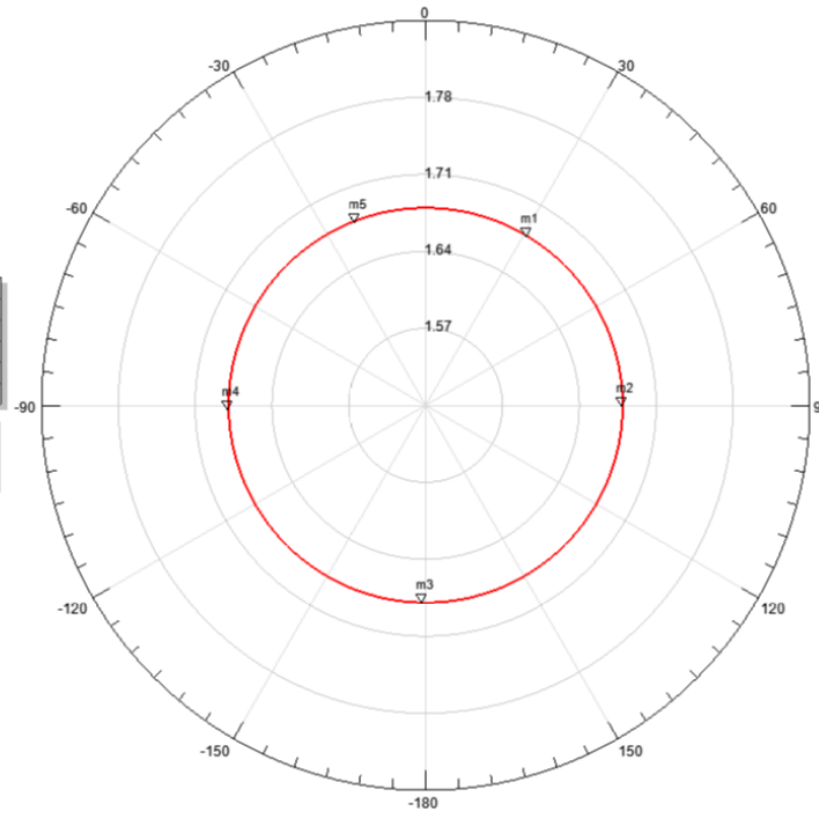
Curve Info
 — max(dB(GainTotal))
 Setup1 : LastAdaptive
 Freq=2.44GHz



H-side:

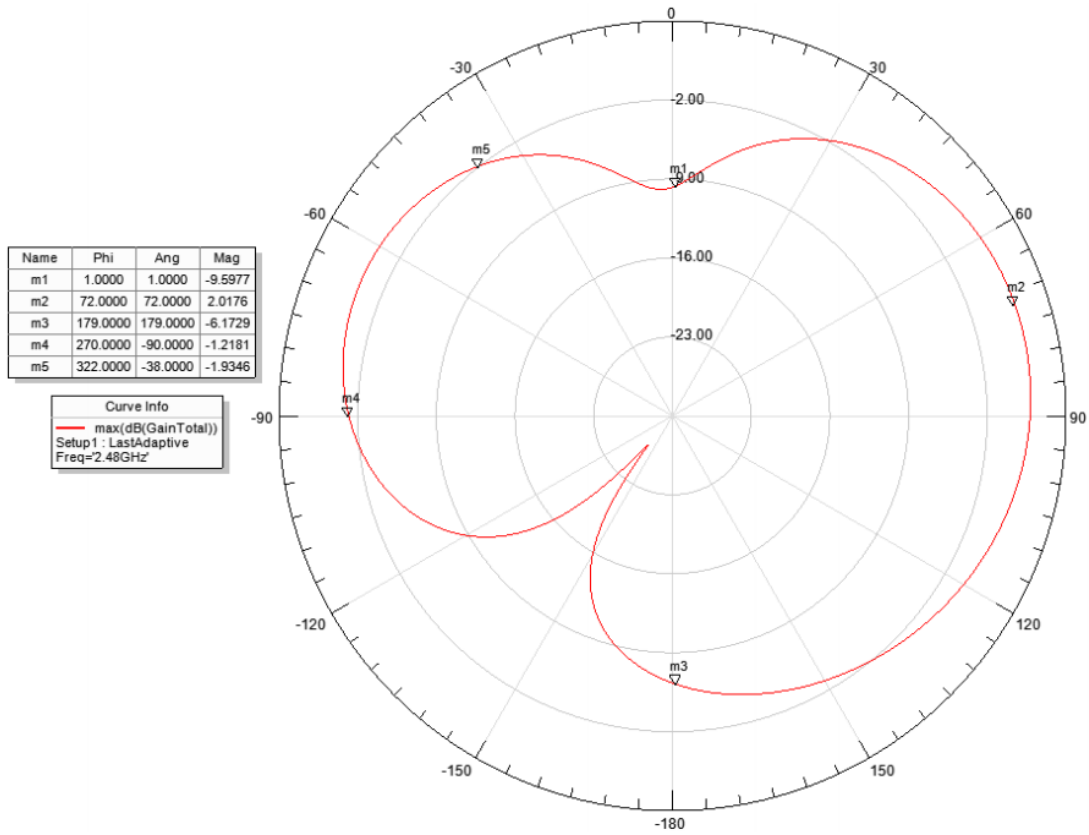
Name	Phi	Ang	Mag
m1	31.0000	31.0000	1.6795
m2	90.0000	90.0000	1.6795
m3	181.0000	-179.0000	1.6795
m4	269.0000	-91.0000	1.6795
m5	339.0000	-21.0000	1.6795

Curve Info
 — max(dB(GainTotal))
 Setup1 : LastAdaptive
 Freq=2.44GHz



2.48GHz: Maximum gain 2dBi

E-Side:



H-side:

