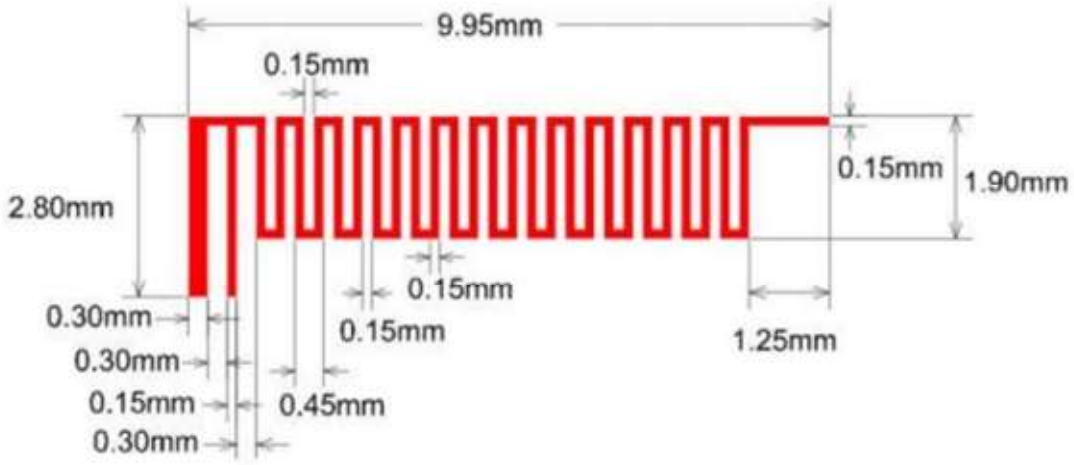
On-board Antenna Datasheet

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

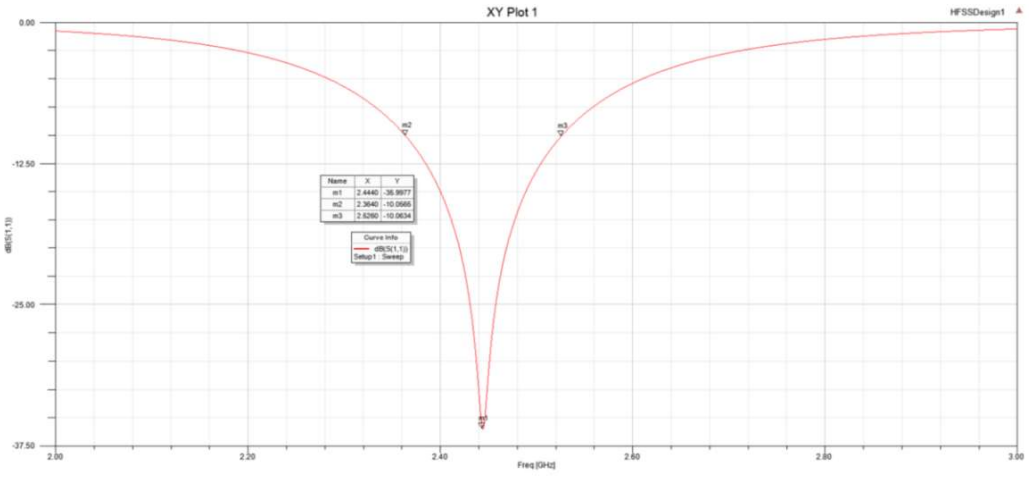
Add:No.18 Ningshuang Road, Yuhuatai District, Nanjing City

operating temperature 0 to 40 °C / storage temperature -40 to 55 °C

3. Antenna S parameter

10dB operating bandwidth: 156MH

Center band S11:-36dB@2.44GHz



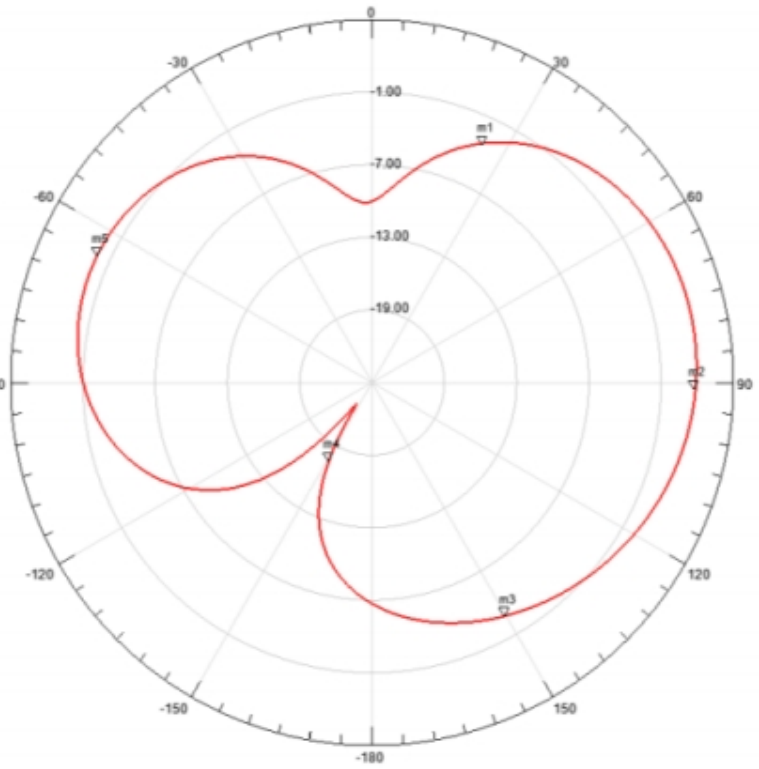
4. Antenna gain

2.4GHz: Maximum gain of 2dBi

E-Side:

Name	Phi	Ang	Mag
m1	25.0000	25.0000	-3.1838
m2	91.0000	91.0000	1.8610
m3	150.0000	150.0000	-2.7514
m4	209.0000	-151.0000	-17.6360
m5	295.0000	-65.0000	0.0986

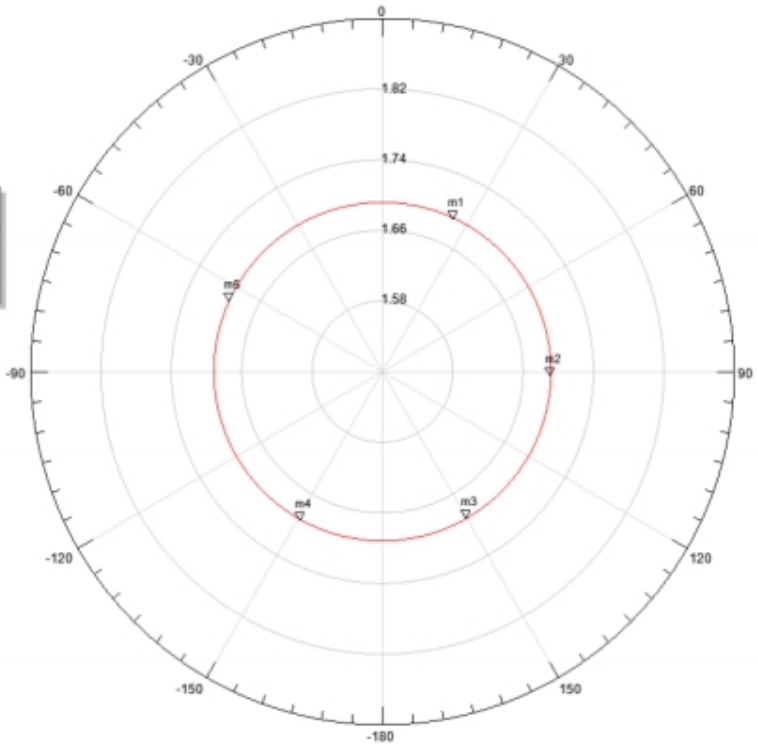
Curve Info
max(dB(GainTotal))
Setup1 : LastAdaptive
Freq='2.4GHz'



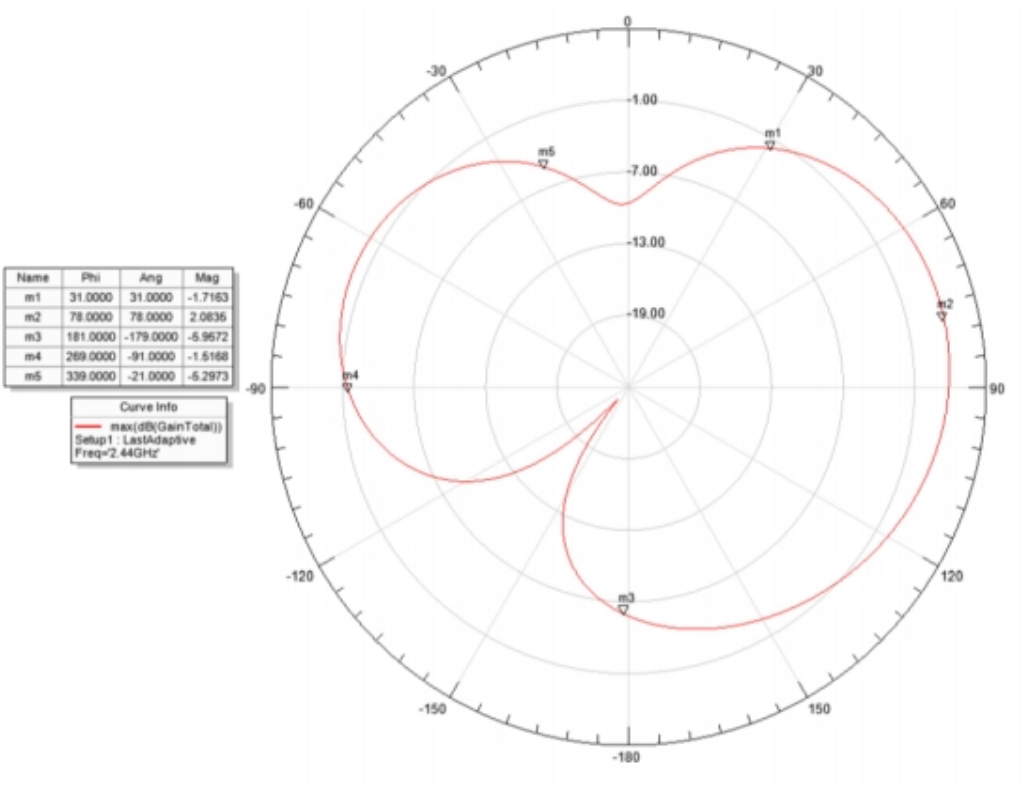
H-side:

Name	Phi	Ang	Mag
m1	25.0000	25.0000	1.6917
m2	91.0000	91.0000	1.6917
m3	150.0000	150.0000	1.6917
m4	209.0000	-151.0000	1.6917
m5	295.0000	-65.0000	1.6917

Curve Info
max(dB(GainTotal))
Setup1 : LastAdaptive
Freq='2.4GHz'



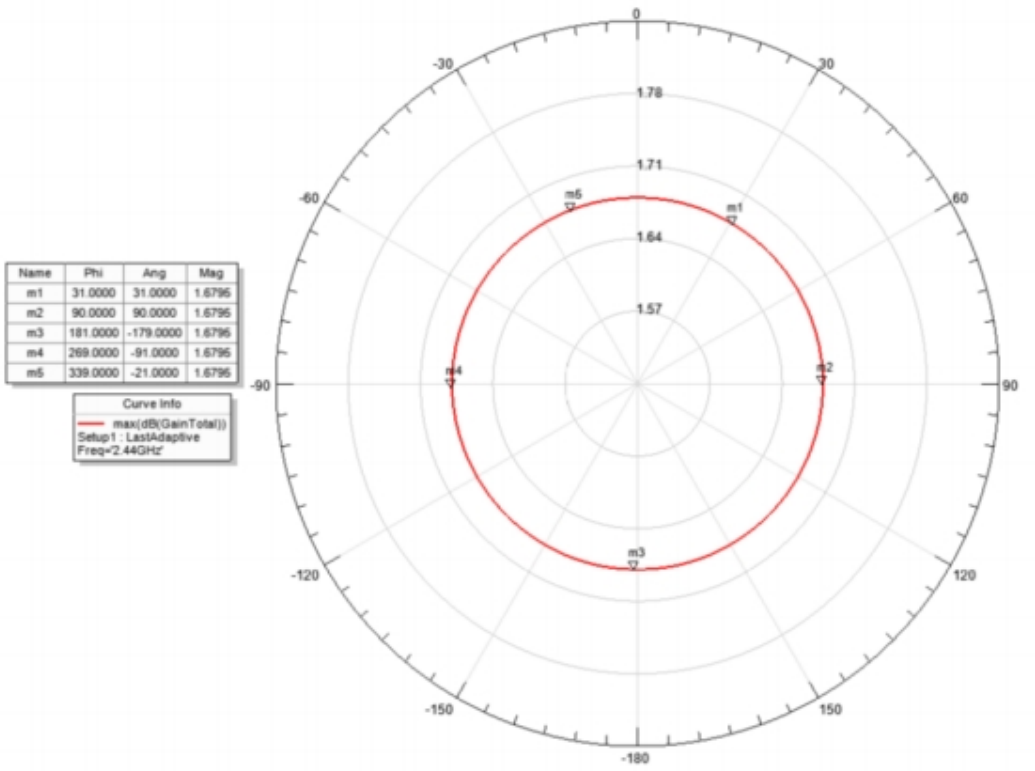
2.44GHz: Maximum gain of 2dBi
E-side



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:

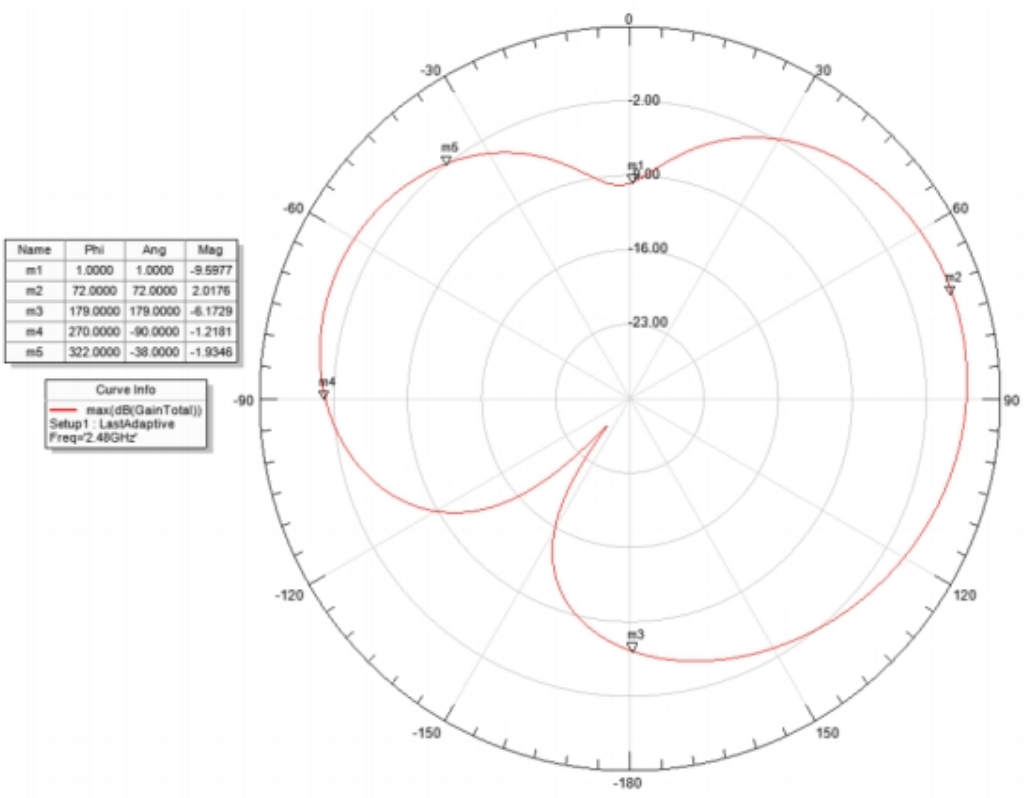


Name	Phi	Ang	Mag
m1	31.0000	31.0000	1.6795
m2	90.0000	90.0000	1.6795
m3	181.0000	-179.0000	1.6795
m4	269.0000	-91.0000	1.6795
m5	339.0000	-21.0000	1.6795

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

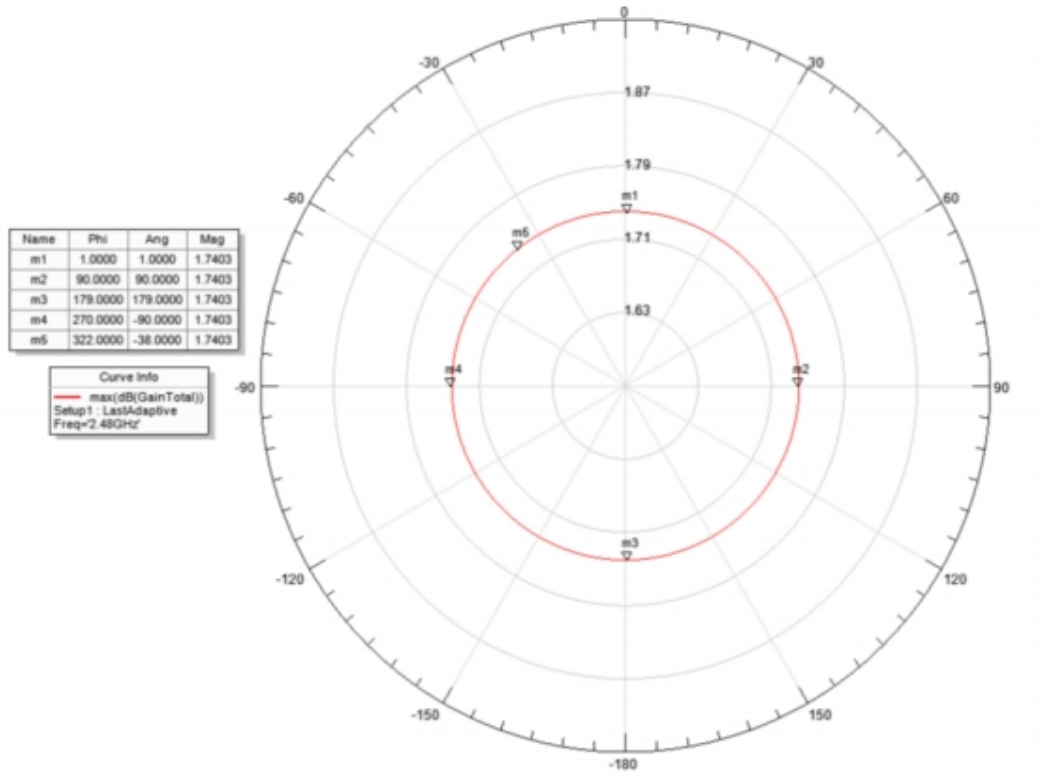
2.48GHz: Maximum gain 2dBi

E-Side:



Name	Phi	Ang	Mag
m1	1.0000	1.0000	-9.5977
m2	72.0000	72.0000	2.0176
m3	179.0000	179.0000	-6.1729
m4	270.0000	-90.0000	-1.2181
m5	322.0000	-38.0000	-1.9346

H-side:



Name	Phi	Ang	Mag
m1	1.0000	1.0000	1.7403
m2	90.0000	90.0000	1.7403
m3	179.0000	179.0000	1.7403
m4	270.0000	-90.0000	1.7403
m5	322.0000	-38.0000	1.7403