

Antenna specification

1, Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

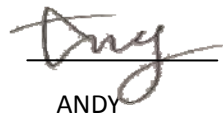
Manufacturer: Thong Design Inc

Address : Gushu, Xixiang, Bao'an District, ShenzhenGroup,Futian

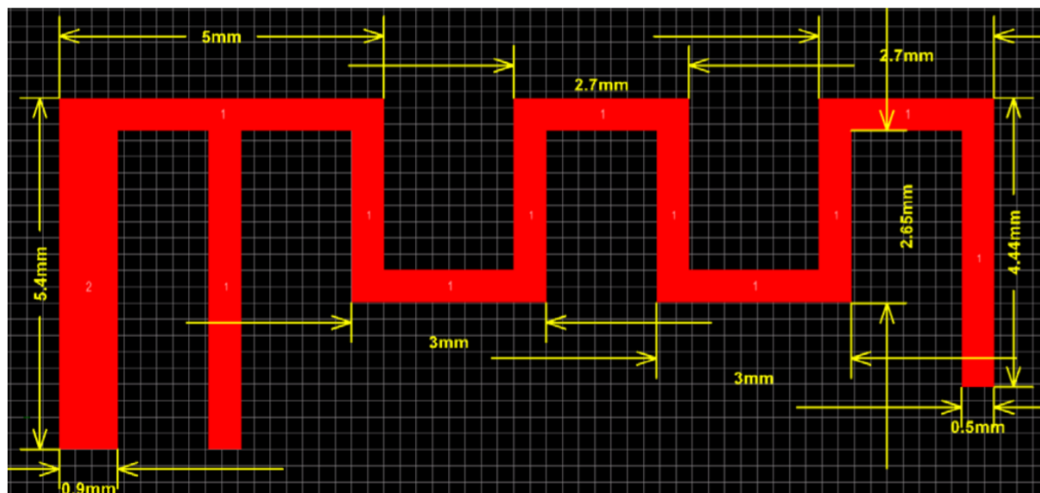
District,Shenzhen

Model No. : D1

Testing Engineer:

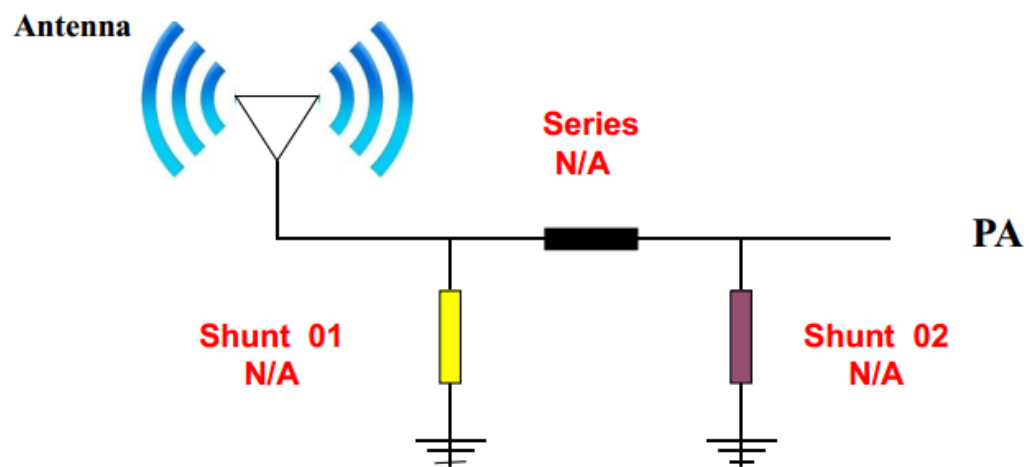

ANDY

2, Antenna shape

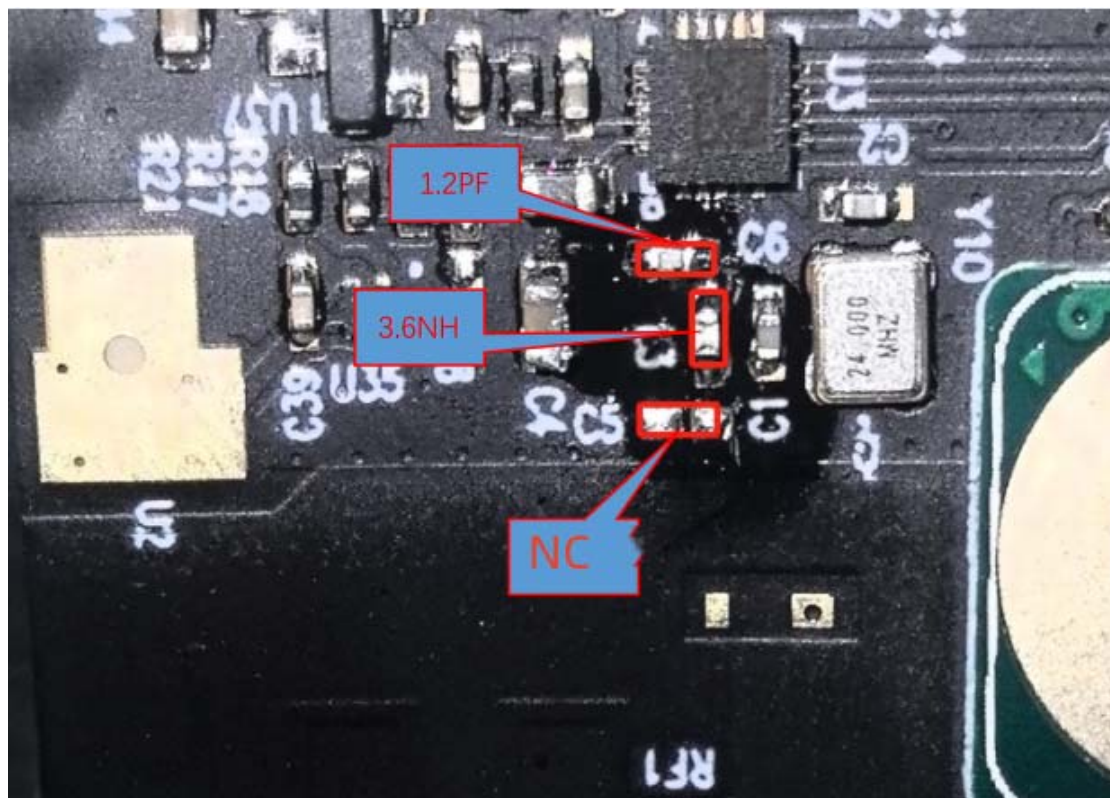


3, Antenna matching

Antenna Matching Network



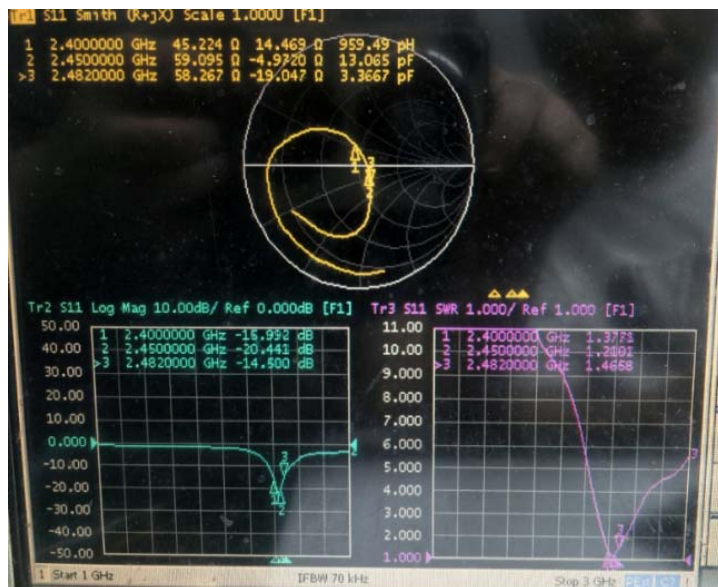
Location	Vendor
Shunt 01	NC
Series	3.6NH
Shunt 02	1.2PF



4, Antenna parameter

Frequency(MHz)	2402 ~ 2480 MHz
VSWR	< 2
Impedance	50±10 Ohm Nominal
Return Loss	-20 dB Max
Radiation	Omni-directional
Gain (Peak)	0.95 dBi
Polarization	Linear, Vertical
Admitted Power	1MW

5, Antenna gain report (S11 SWR /Smith/ Log Mag)



frequency (MHZ)	2400	2450	2500
standing-wave ratio	1.3	1.2	1.4
impedance	45.2 Ω	59 Ω	58.2 Ω
Return Loss	-15.9	-20.4	-14.5

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	40.02	-0.08
2410	42.33	-0.39
2420	42.82	-0.32
2430	43.68	0.12

2440	42.37	0.37
2450	45.55	0.74
2460	44.74	0.58
2470	43.92	1.03
2480	45.04	0.95
2490	45.11	1.25
2500	46.54	0.7

6, Antenna efficiency

