

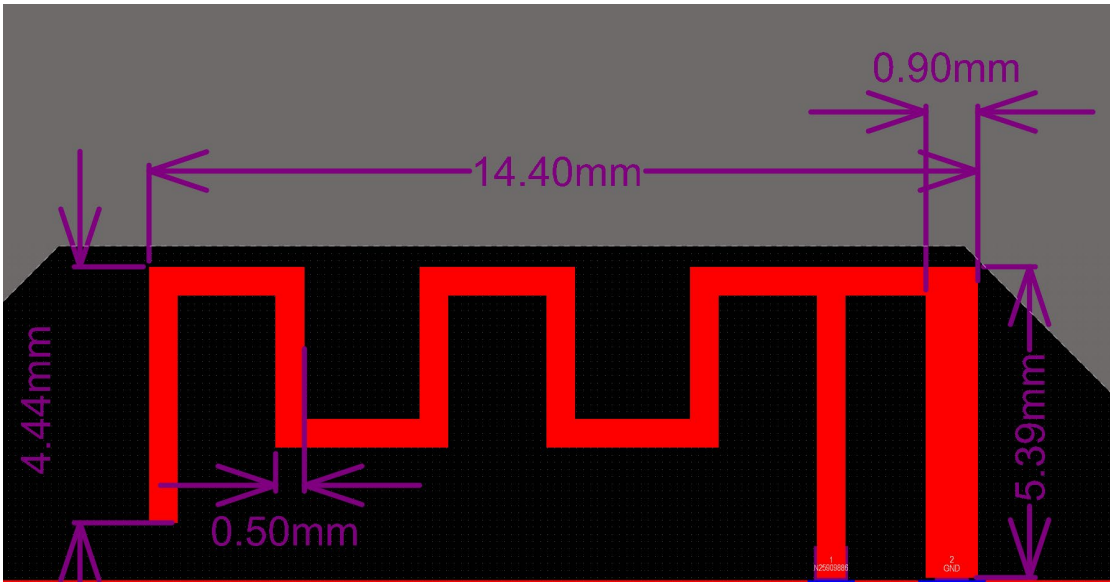
Truesense PCB Patch Bluetooth Antenna

1, Introduction of Antenna

'Arduino Stella' Bluetooth Antenna is a PCB patch antenna which is directly made on PCB .The antenna is copper foil with 1oz thickness, PCB material is FR-4 with total 1mm thickness.

2, Antenna Shape:

See below picture.



3, Antenna parameters

The Bluetooth antenna operates at 2402-2480MHz and generates resonance in this frequency band. The next table is the main parameter of the antenna.

Bluetooth PCB Patch Antenna	
Frequency(MHz)	2402-2480MHz
VSWR	≤ 2.56
Impedance	50ohm Nominal

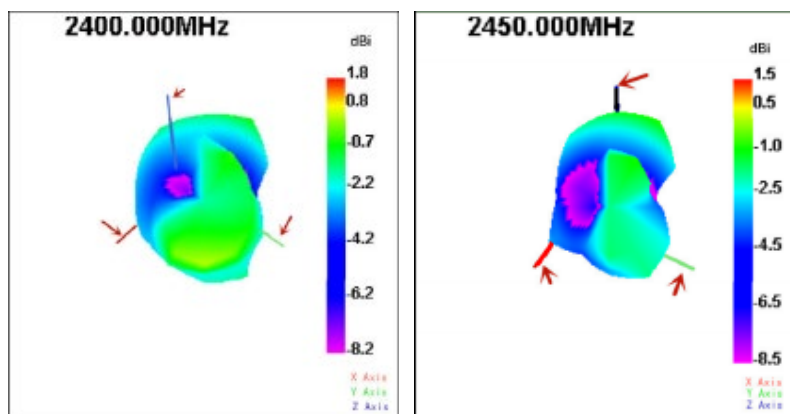
Return Loss	-9.42dB Max
Radiation	Omni-directional
Gain (Peak)	1.89dB
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

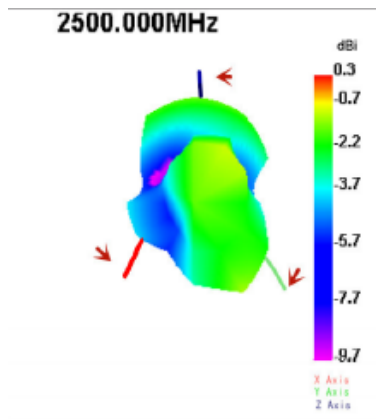
4, Antenna gain detection report

Maximum gain value

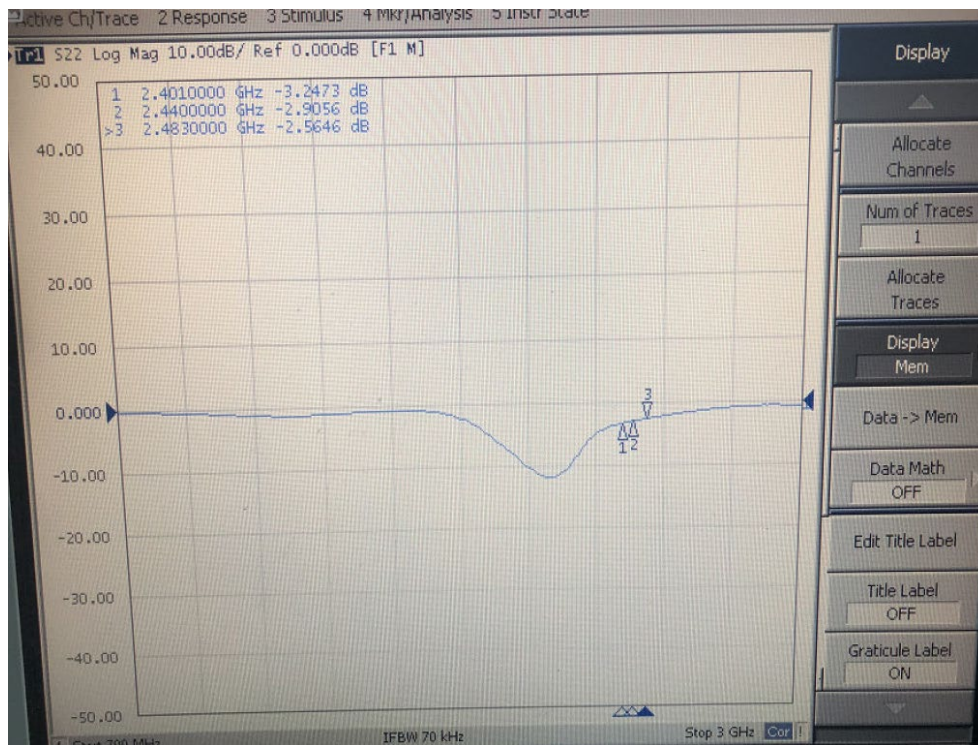
Frequency (MHz)	Max Gain (dB)
2400	1.49
2410	1.36
2420	1.12
2430	1.21
2440	1.89
2450	1.45
2460	1.17
2470	1.25
2480	1.05
2490	1.33
2500	1.37

Directional map:





VSWR



Return Loss



Antenna Manufacturer: Truesense S.R.L.

Address: Viale Lombardia, 217 - 20900, Monza, Italy

Antenna Type: Arduino Stella