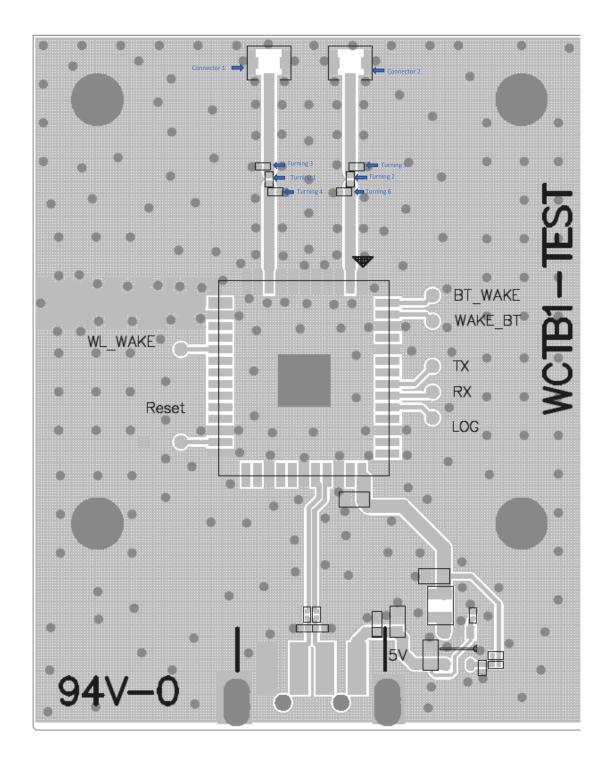
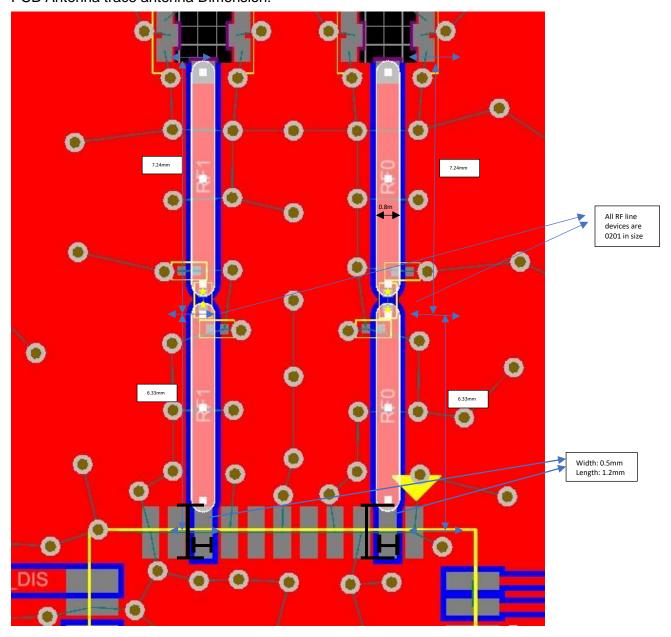
## **User manual Supplementary information**

- a) Trace layout and dimensions including specific designs for each type:
  - 1. Layout of trace design, parts, antenna, connectors, and isolation requirements:



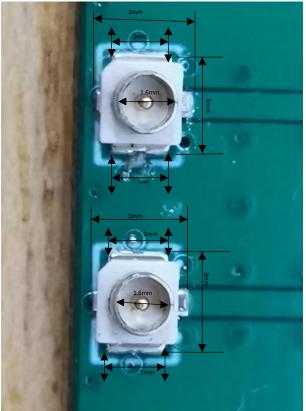
 Boundary limits of size, thickness, length, width, shape(s), dielectric contain, and impedance must be clearly described for each type of antenna:
PCB Antenna trace antenna Dimension:



★ : 0.33\*0.33mm

Note: 1. RF trace between module RF pinout to antenna width is 0.8mm. 2. RF trace between module and antenna impedance is 0ohm.

IPEX connector information: Size:



 Different antenna length and shapes effect radiated emission and each design should be considered a different type: 2.4G WIFI:

Antenna	Frequency (MHz) Antenna Type		MAX Antenna Gain (dBi)
1	2412-2462	PIFA antenna	1.26
2	2412-2462	PIFA antenna	1.26

b) Appropriate parts of manufacturers and specifications: Information about devices on RF lines:

Parts list	Parts number	Size	Manufacturer				
Tuning 1/0Ω	/	0201	varies				
Tuning 2/0Ω	/	0201	varies				
Tuning 3/NC	/	0201	varies				
Tuning 4/NC	/	0201	varies				
Tuning 5/NC	/	0201	varies				
Tuning 6/NC	/	0201	varies				

	Туре	line type	Impedance	Installation	Manufacturer
Connector 1	IPEX	Male pin	50Ω	Surface mount	varies
Connector 2	IPEX	Male pin	50Ω	Surface mount	varies

If customers completely refer to our antenna design for their own design, the antenna performance should also be the same as ours.

## C) Test procedures and design verifications:

Customer product development and design - > Must copy the RF traces of the DXF file on the board completely. Follow up PCB design rule and PCB stack.

- ->Design Input
- > Review customer design
- RF circuit matching and components selection confirmation
- ->Design output

Process monitoring need for improvement

- > Customer Validate the design until it satisfies the needs

and FCC/IC requirements

Successfully validated design goes for production

d) Production test procedures for ensuring compliance

