



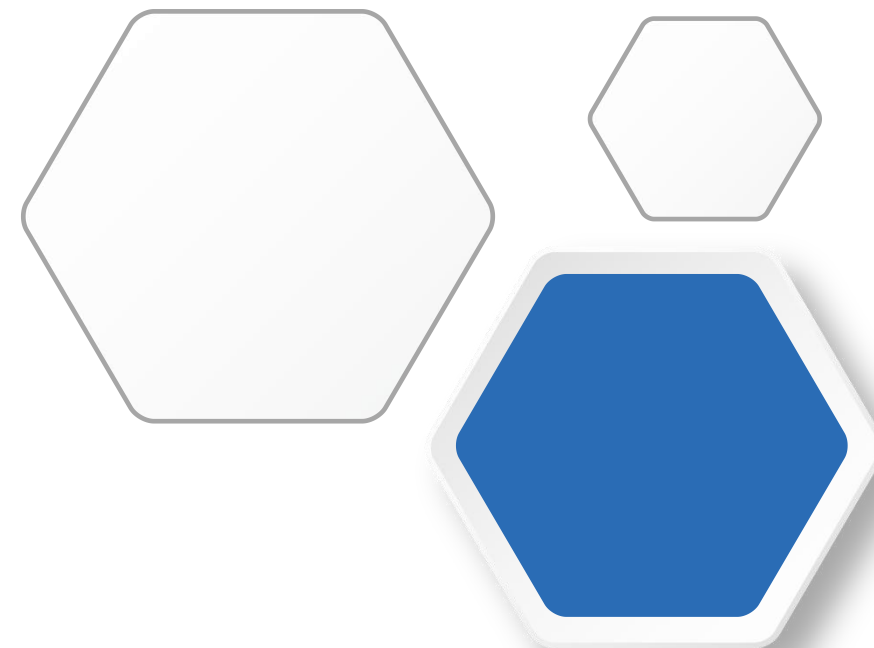
Topland IoT

LM602 Antenna Debugging Report



RF Engineer: Li Gong

Date: 2025.08.27

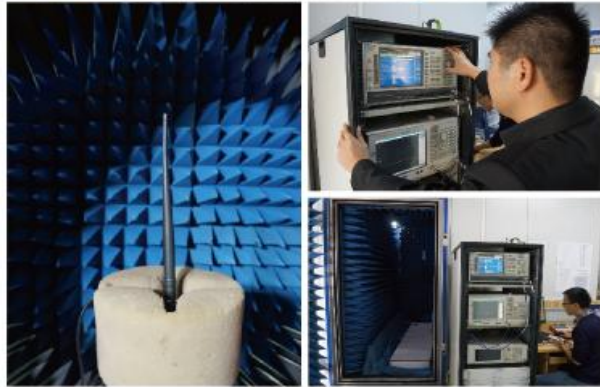
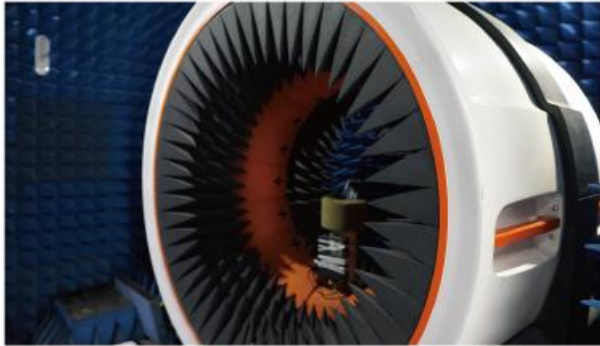




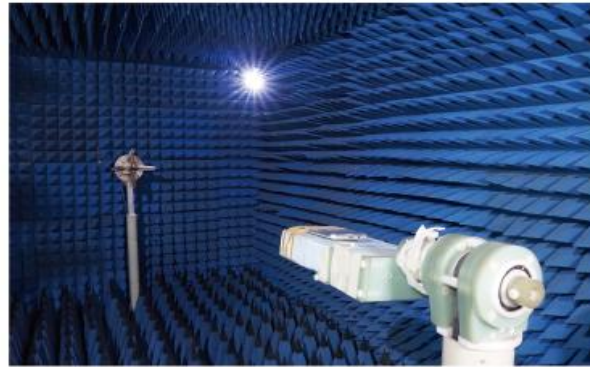


Basic information

【SATIMO】



【广屏】



Test System

- SATIMO, Agilent E5071C, Anritsu MT8820C, MW500, StarPoint SP9500

SATIMO Anechoic Chamber

Equipped with Anritsu Integrated Tester 8820c / Agilent Network Analyzer 5071C / Agilent Integrated Tester E4438C

Guangping Anechoic Chamber

Equipped with Agilent Integrated Tester 8960 / Rohde & Schwarz CMW500

Debugging Network Analyzer: Agilent Network Analyzer 5071C



Basic information

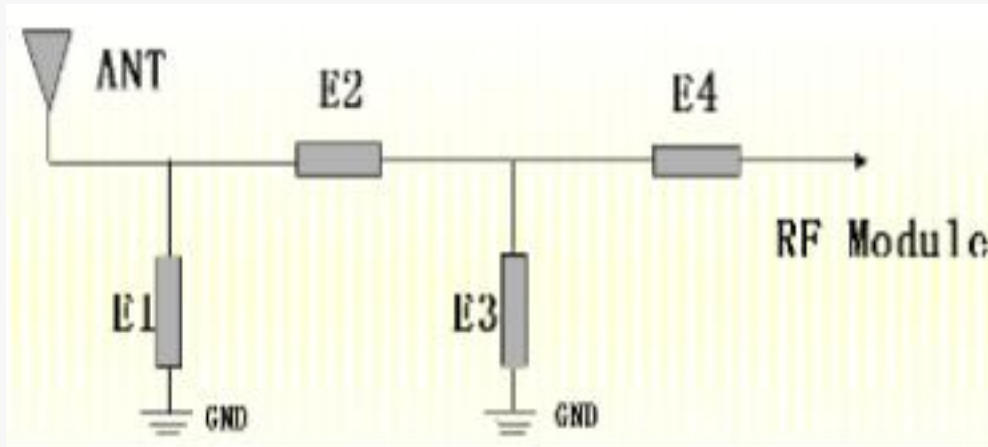


Complete Machine Data

- Customer Name: Lemi
- Project Name: LM602
- Frequency Band Information: BT



Basic information



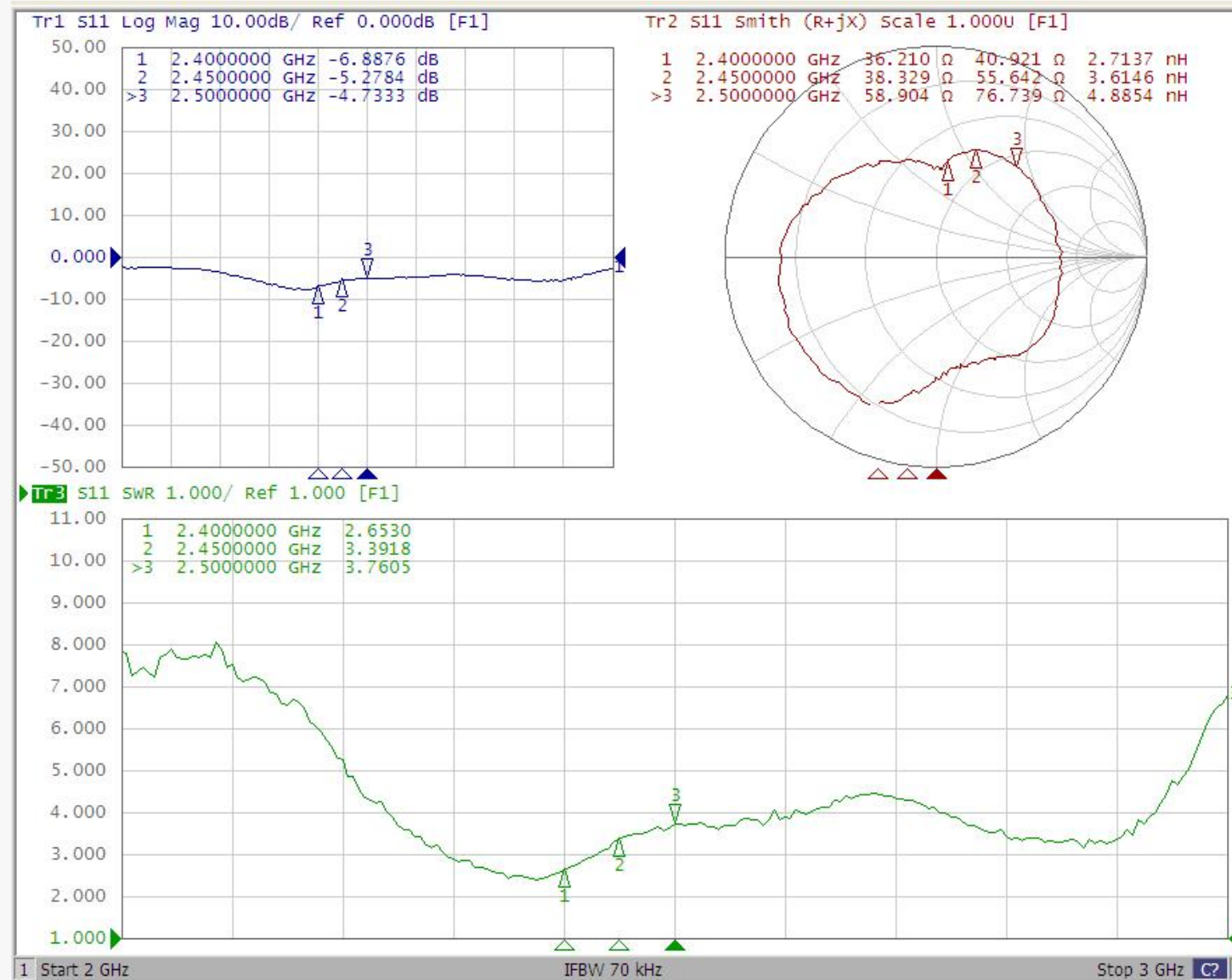
Antenna circuit matching description

(1) **BT antenna matching:**
No changes



test data

BT Antenna Passive Chart - (SWR/Log Mag /Smith)



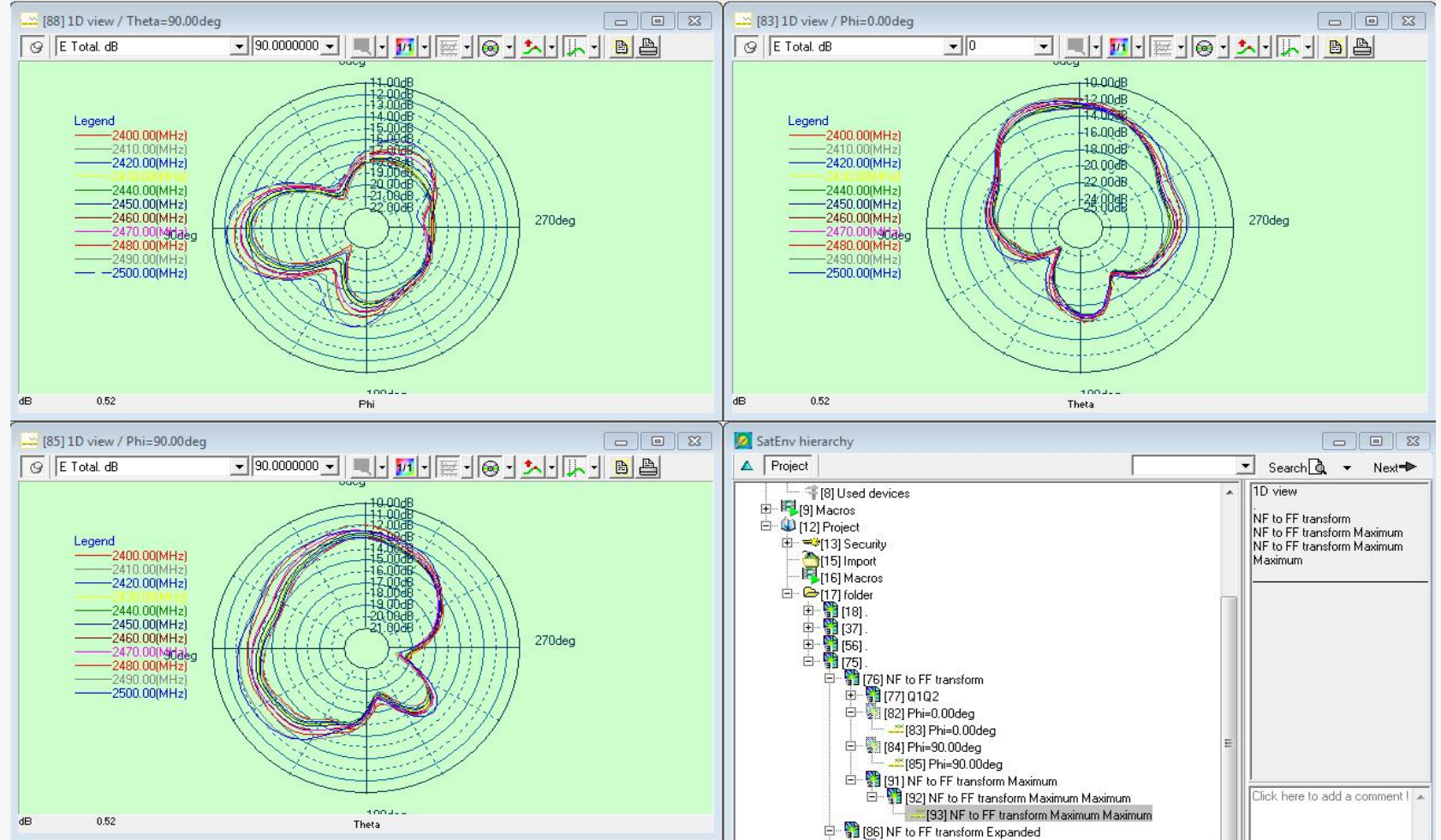


test data

BT Antenna Passive Data- (Efficiency/Gain/Radiation Pattern)

2400-2500MHz Efficiency

Frequency	Efficiency	Gain. dBi
2400MHz	6%	-7.64
2410MHz	6%	-7.68
2420MHz	6%	-7.59
2430MHz	6%	-7.39
2440MHz	6%	-7.55
2450MHz	6%	-7.38
2460MHz	6%	-7.06
2470MHz	6%	-7.00
2480MHz	7%	-6.72
2490MHz	7%	-6.33
2500MHz	7%	-6.52



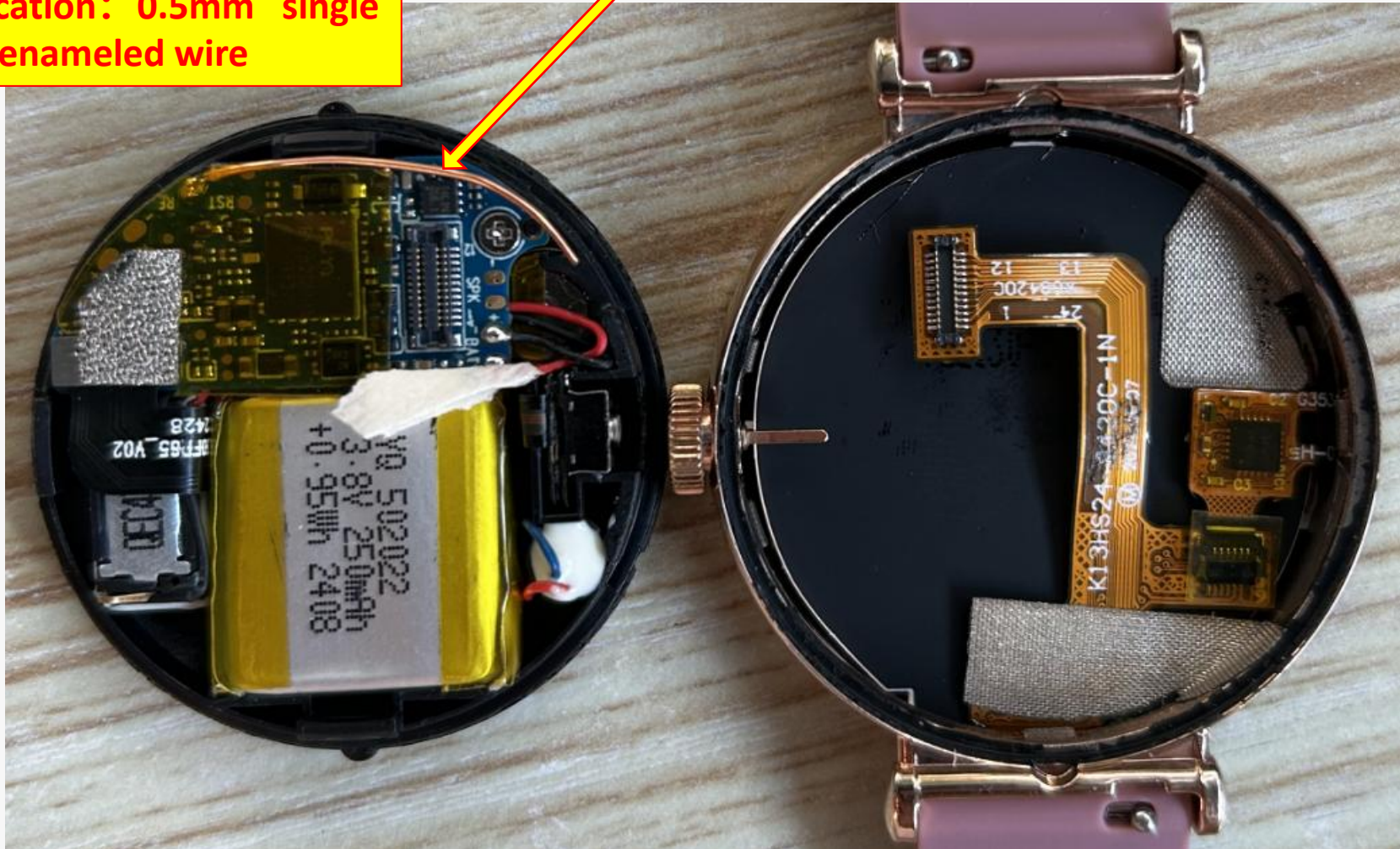


Antenna Location:

Length: 25mm

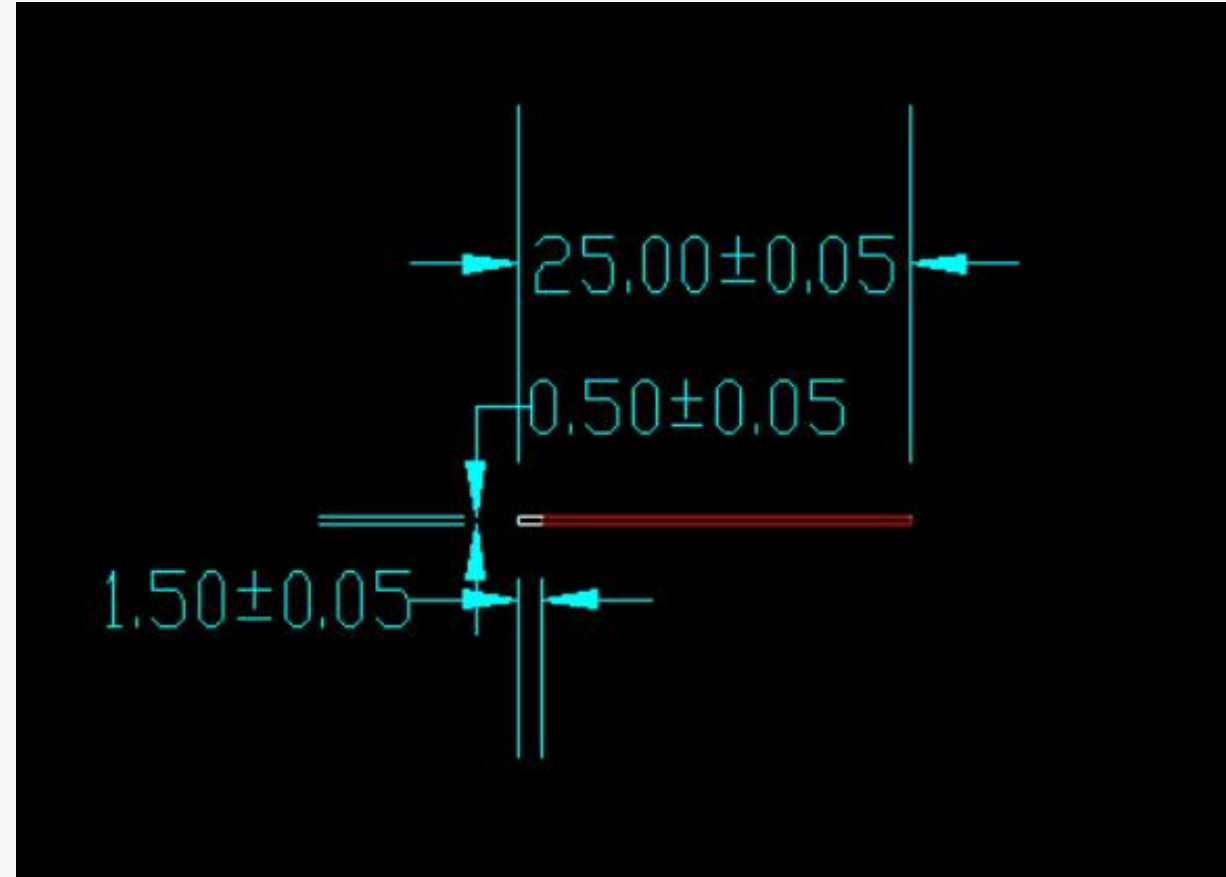
Specification: 0.5mm single strand enameled wire

BT antenna is in the form of enameled wire, the placement diagram is as follows:





Antenna Specifications:





Planning to summarize

The above report is for the LM602 customer-supplied machine, BT antenna retest report.

1. Antenna matching: No changes.
2. Environmental treatment: No changes.
3. It is recommended that all connecting harnesses of the accessories be twisted into braids and placed away from the antenna position.



THANK YOU

May you have a peaceful heart in this noisy world
– Topland IoT

