

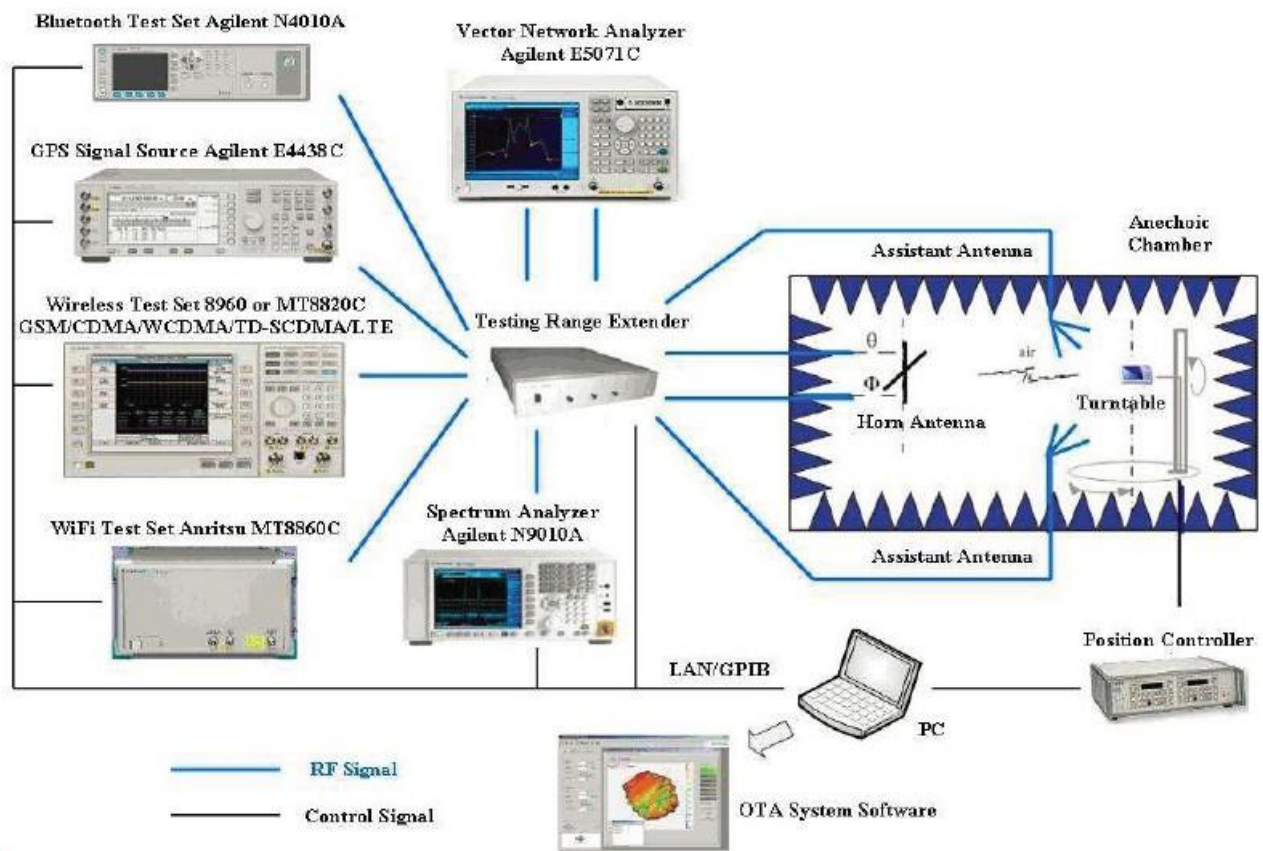
Antenna specification for approval

Customer name			
Model			
Antenna band	2.4GHZ		
Antenna type	T09-V1.2-FPC (Antenna)		
Antennamaterial	FPC		
FPC color	L(White)/R(Black)		
Materialnumber	T09-V1.2-FPC(Antenna)		
Barely accepted the signature		Client acknowledges signature	
structure		Purchase	
QC		structure	
radio frequency		engineering	
To examine		QC	
date2025.06.20	Seal area	date2025.06.20	Seal area

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1. Device-supported & Testable Antenna Types



2. Overview

(1)Antenna performance

1. This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of BT antenna.
2. Antenna shape size: Meet the requirement of MID
3. Antenna band: 2400MHz~2500MHz
4. Antenna material: Antenna material meet the requirement of MID
5. Adhesive performance: Adhesive performance meet the requirement of MID
6. Antenna performance meet the spec below:

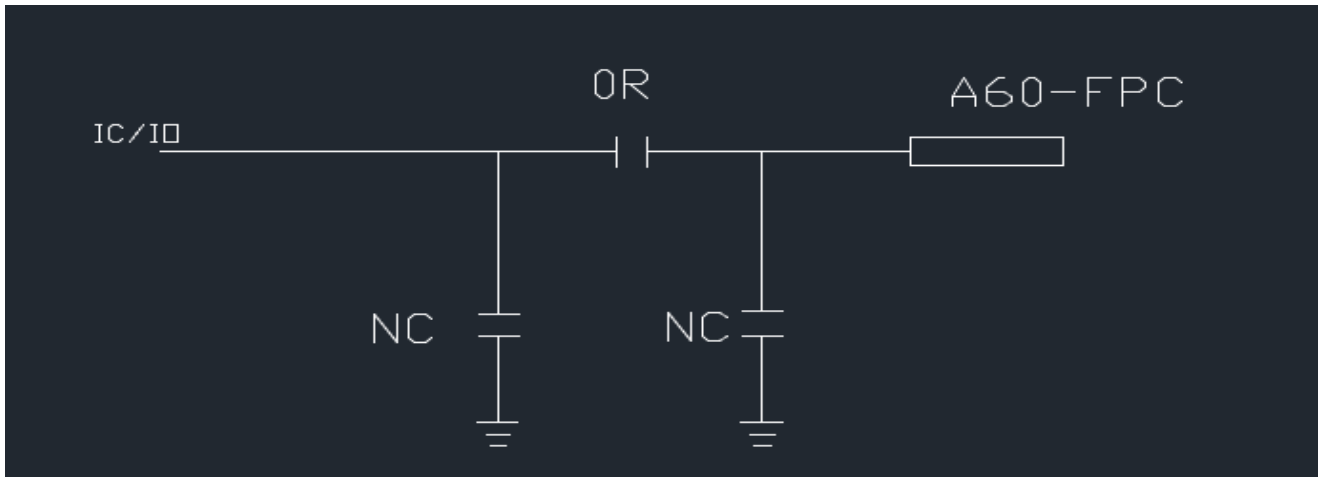
Description	2. 4GHZ~2. 5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	NA
Description	BT antenna
Material	FPC
Coaxial Cable	NA
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

3. Matching circuit diagrams & machine pictures & antenna pictures

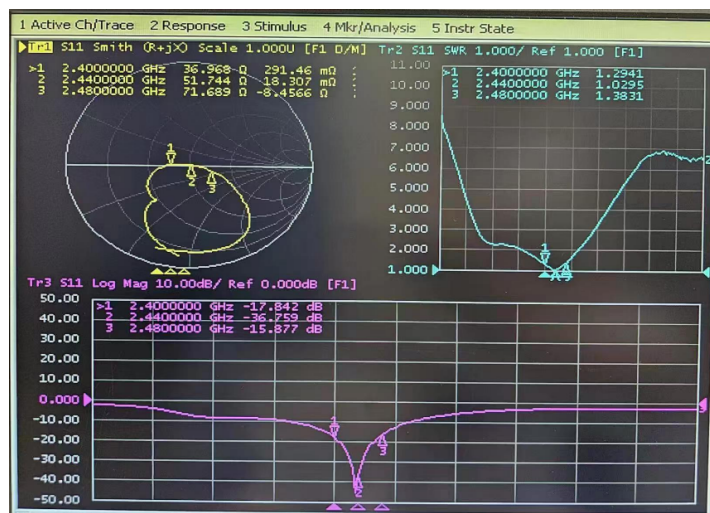
(1) Matching Circuit



(2) Machine pictures & antenna pictures

- a: Gold plating & immersion gold;
- b: Surface with white/black matte ink;
- c: Compliant with the latest environmental requirements: RoHS & REACH;
- d: Full board shipment;

4. Antenna VSWR & Antenna Efficiency(VSWR) .

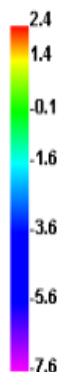
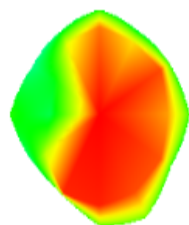


Frequency (MHz)	VSWR
2400	1.29
2450	1.02
2500	1.38

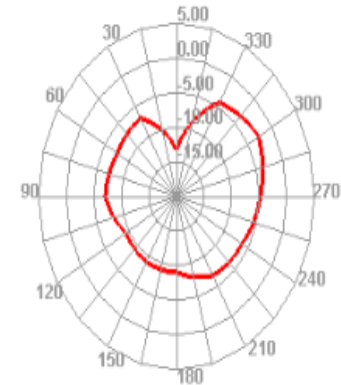
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	47.6	-3.22	2.36	0.21
2410	41.94	-3.77	1.79	-0.36
2420	44.56	-3.51	2.06	-0.09
2430	50.2	-2.99	2.66	0.51
2440	40.53	-3.92	1.71	-0.44
2450	50.36	-2.98	2.69	0.54
2460	42.12	-3.75	2.01	-0.14
2470	43.69	-3.6	2.06	-0.09
2480	47.52	-3.23	2.3	0.15
2490	36.44	-4.38	1.03	-1.12
2500	41.78	-3.79	1.48	-0.67

5:3D pattern

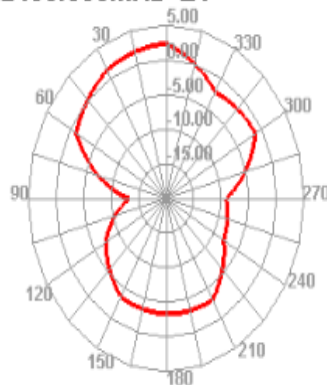
2400.000MHz



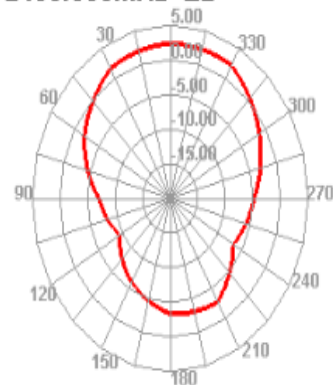
2400.000MHz H



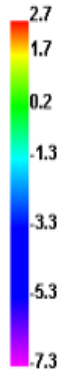
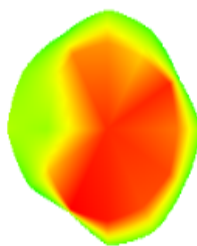
2400.000MHz E1



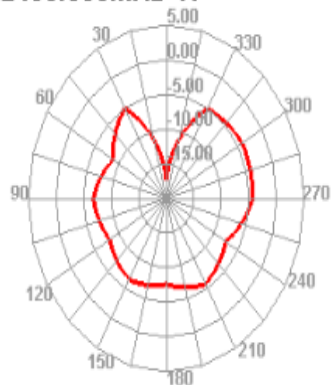
2400.000MHz E2



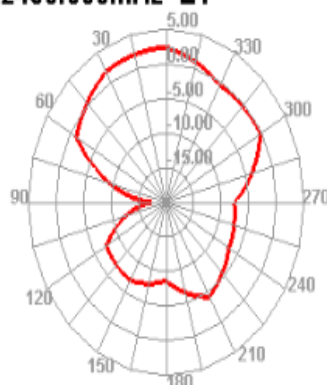
2450.000MHz



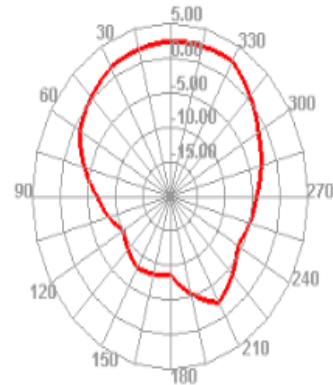
2450.000MHz H



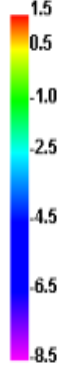
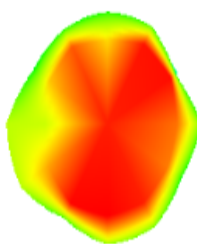
2450.000MHz E1



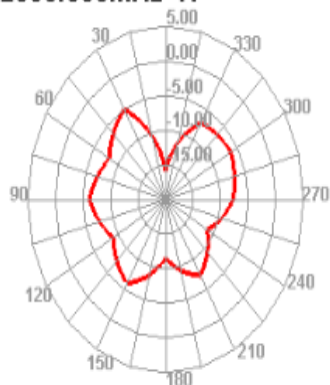
2450.000MHz E2



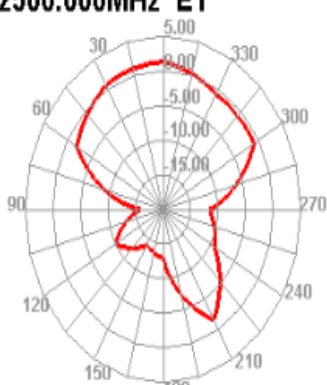
2500.000MHz



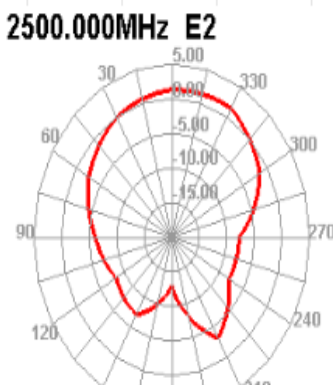
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



6. Structural drawings

