

# Shenzhen DBT Telecommunication Technology CO.,LTD

## Antenna specifications

Customer : EIOT

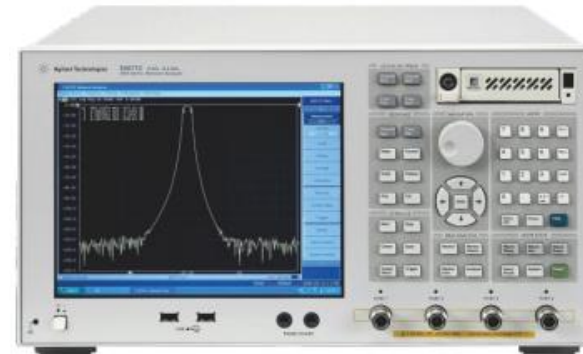
Project : H652

Antenna standard: BT

# 1. Test equipment



OTA-800  
Model : ETS



5071C  
Model : Agilent

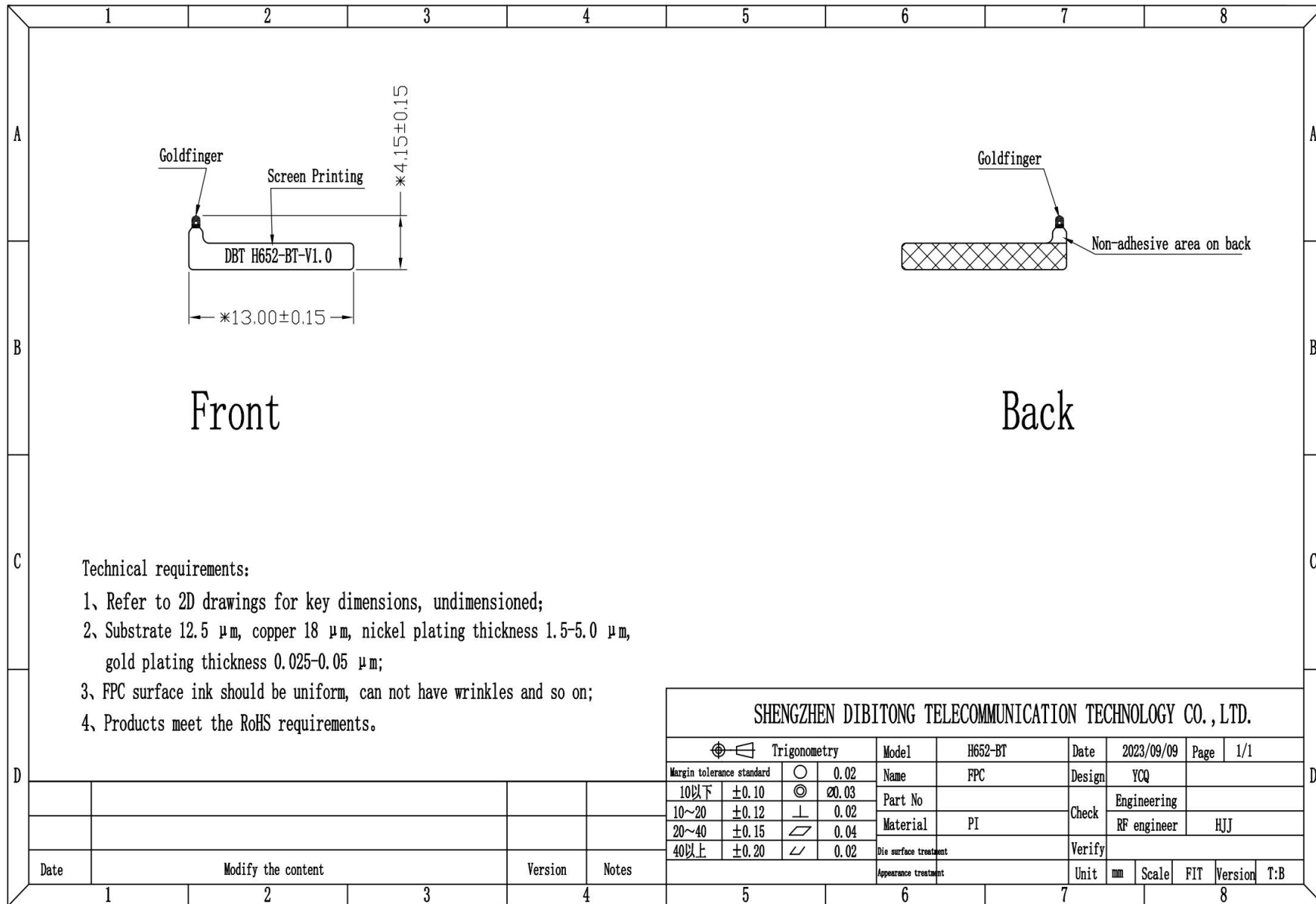


8960  
Model : Agilent



CMW500  
Model : ROHDE&SCHWAR

# 2. Antenna Drawing



**Technical requirements:**

- 1、Refer to 2D drawings for key dimensions, undimensioned;
- 2、Substrate 12.5  $\mu\text{m}$ , copper 18  $\mu\text{m}$ , nickel plating thickness 1.5-5.0  $\mu\text{m}$ , gold plating thickness 0.025-0.05  $\mu\text{m}$ ;
- 3、FPC surface ink should be uniform, can not have wrinkles and so on;
- 4、Products meet the RoHS requirements.

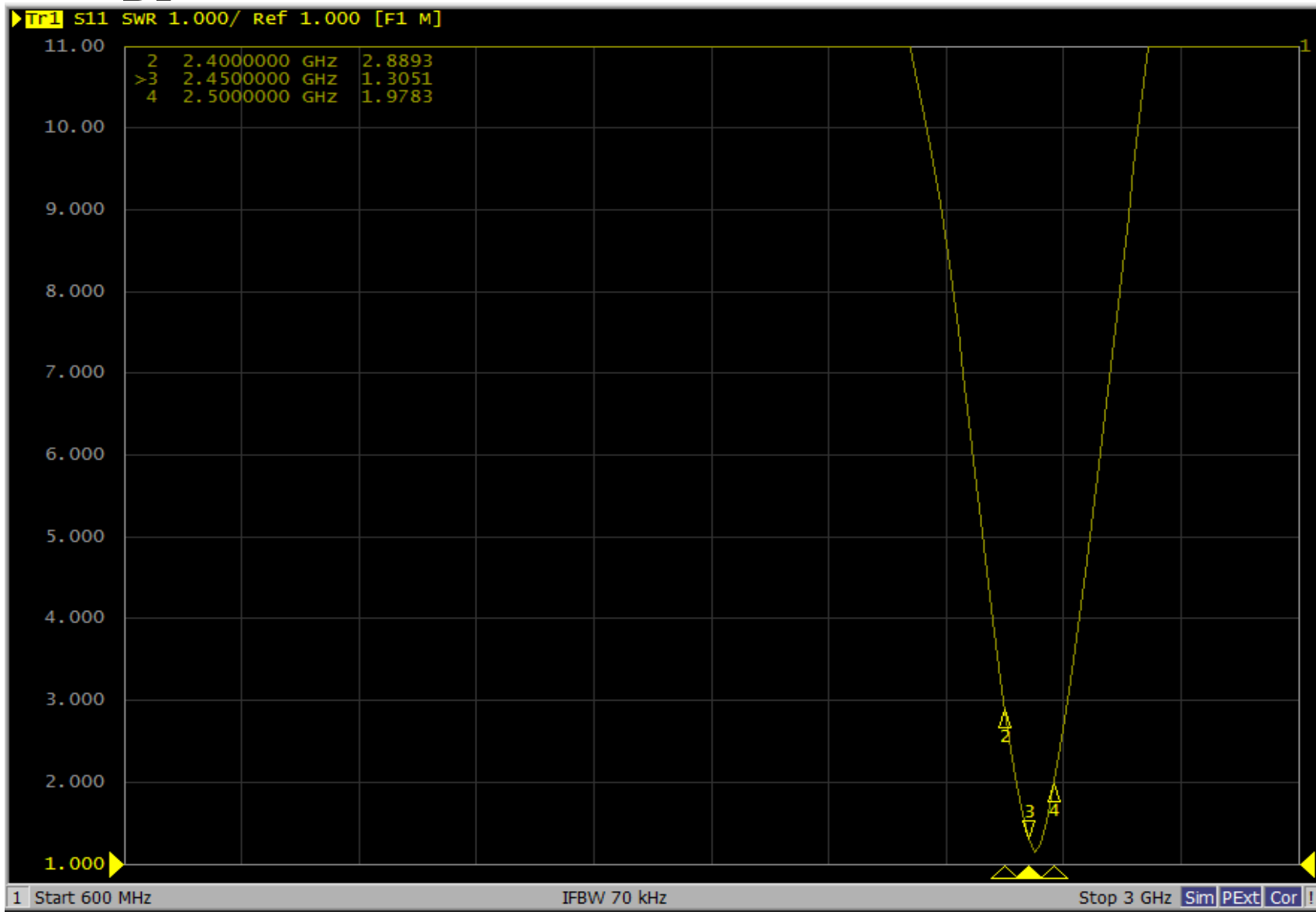
SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO., LTD.										
☉ Trigonometry		Model	H652-BT	Date	2023/09/09	Page	1/1			
Margin tolerance standard	○	0.02	Name	FPC	Design	YCQ				
10以下	±0.10	◎	∅0.03	Part No	Check	Engineering				
10~20	±0.12	⊥	0.02	Material	RF engineer	HJJ				
20~40	±0.15	▱	0.04	Die surface treatment	Verify					
40以上	±0.20	∠	0.02	Appearance treatment	Unit	mm	Scale	FIT	Version	T:B
Date	Modify the content			Version	Notes					

### 3.Electrical Performance Index

Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤2.9
Input Impedance( $\Omega$ )	50
Gain(dBi)	-11.83
Radiation efficiency(%)	1.8%
Max power(W)	10
Antenna Type	monopole
Working Temperature( $^{\circ}\text{C}$ )	-40~+80

# 4. Antenna S11 data

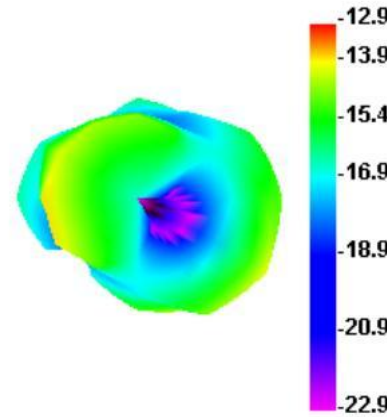
BT



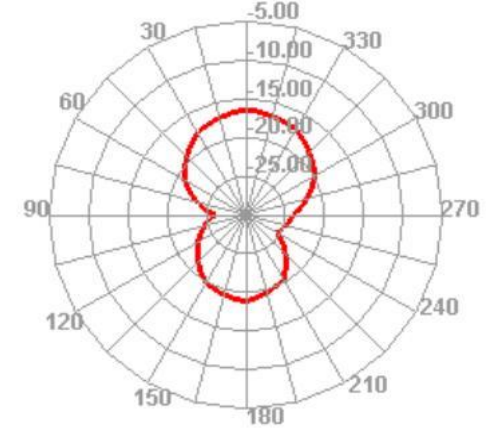
# 5. Antenna Efficiency/Gain (free space)

BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	1.63	-12.21
2410	1.71	-11.83
2420	1.55	-12.21
2430	1.52	-12.34
2440	1.72	-12.1
2450	1.52	-12.92
2460	1.87	-12.41
2470	1.83	-12.85
2480	2.33	-11.85
2490	1.73	-12.97
2500	2.05	-11.9

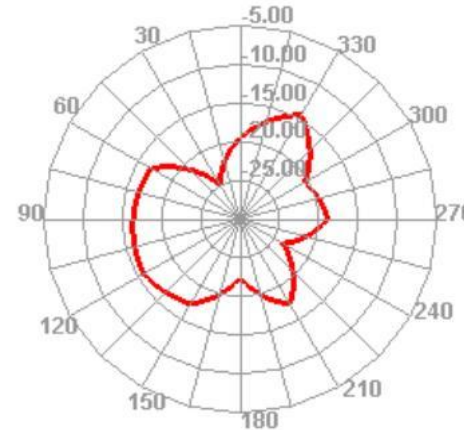
2450.000MHz



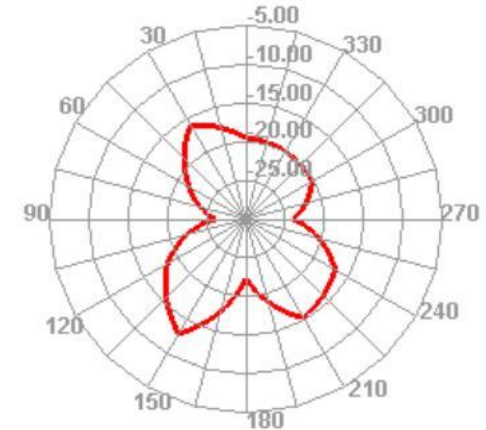
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



## 6.Products to be tested

