

Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna specifications

Customer : EIOT

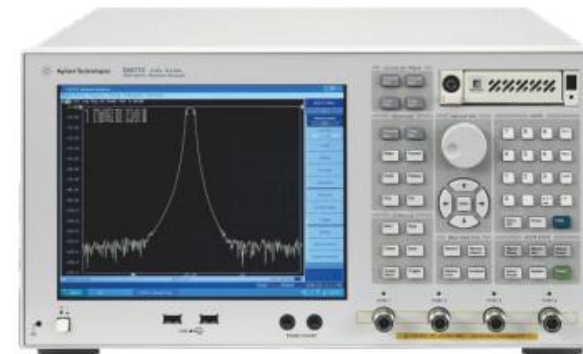
Project : S08

Antenna standard: GPS/BT

1. Test equipment



OTA-800
Model : ETS



5071C
Model : Agilent



8960
Model : Agilent



CMW500
Model : ROHDE&SCHWAR

2.Electrical Performance Index

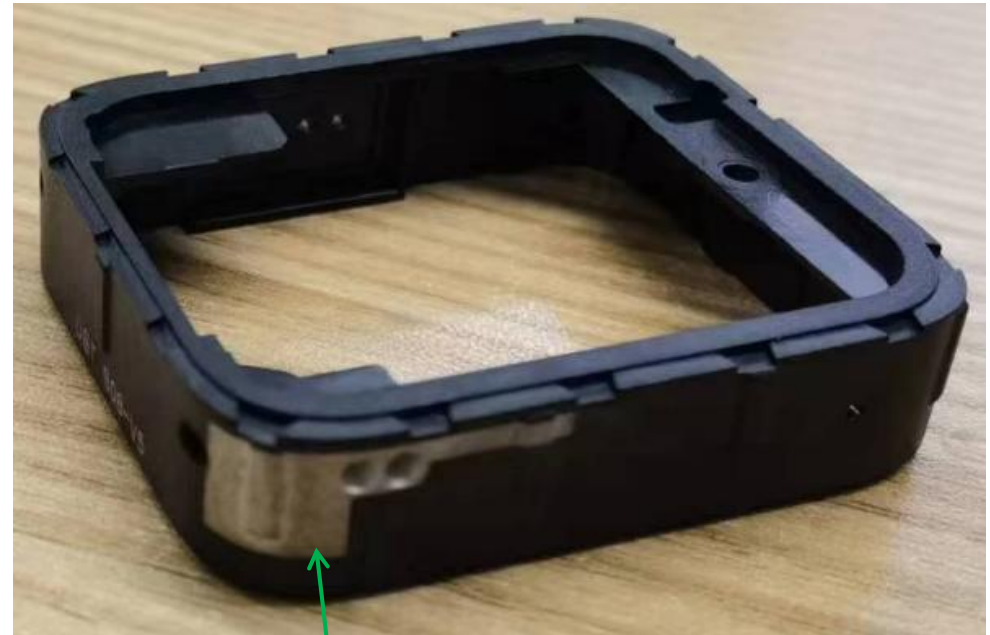
Electrical Parameter	
Frequency Range (MHz)	2400~2500 1575.42
VSWR	≤2.0
Input Impedance(Ω)	50
Gain(dBi)	2.4G=1.35 ; GPS=-1.46
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PIFA
Working Temperature(°C)	-40~+80

3. Picture and size of antenna



GPS_antenna

Size: 22.5*15.9*6.65mm



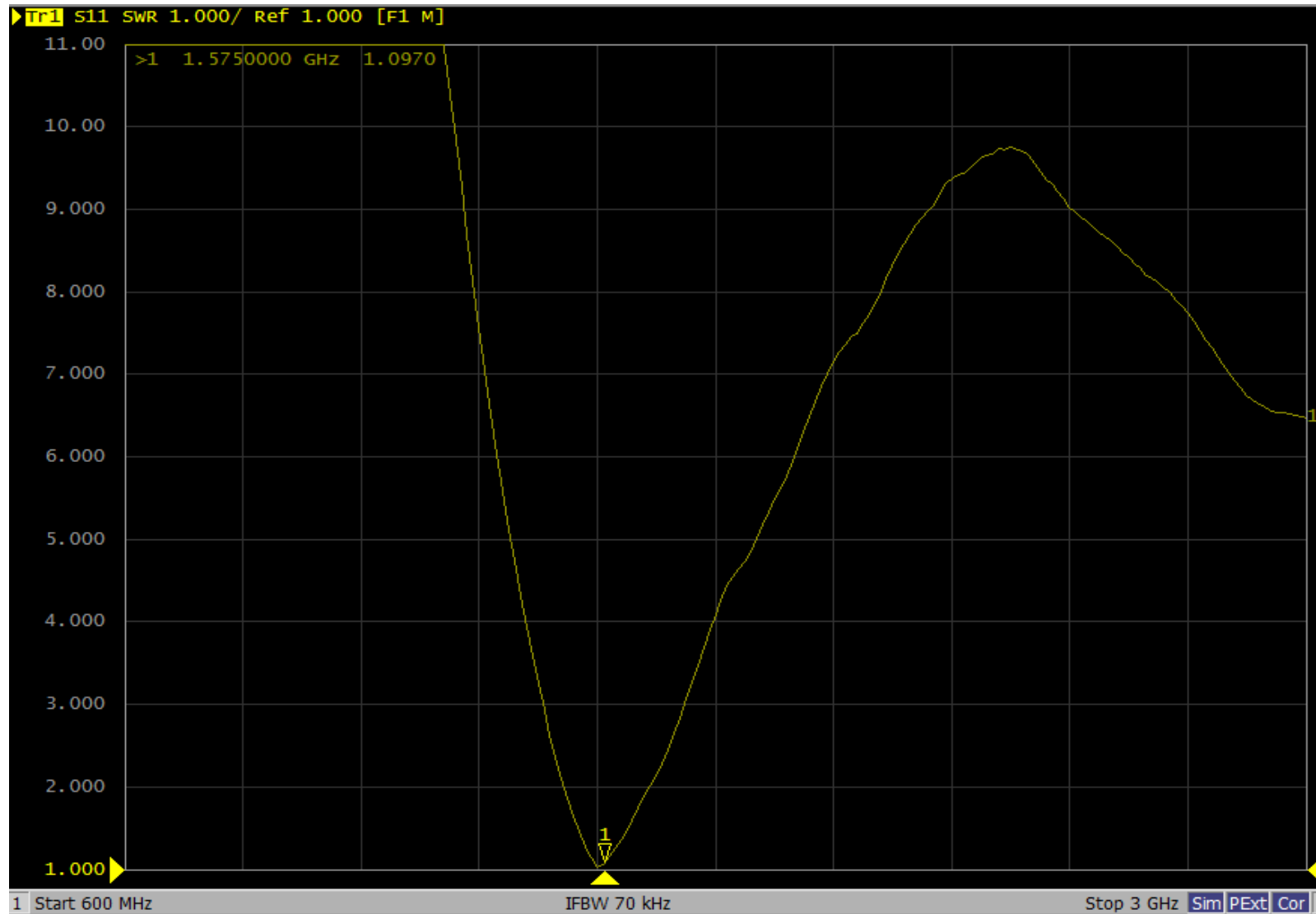
BT_antenna

Size: 17.65*5.10*6.55mm

Appearance size: 45.30*40.40*11.85mm

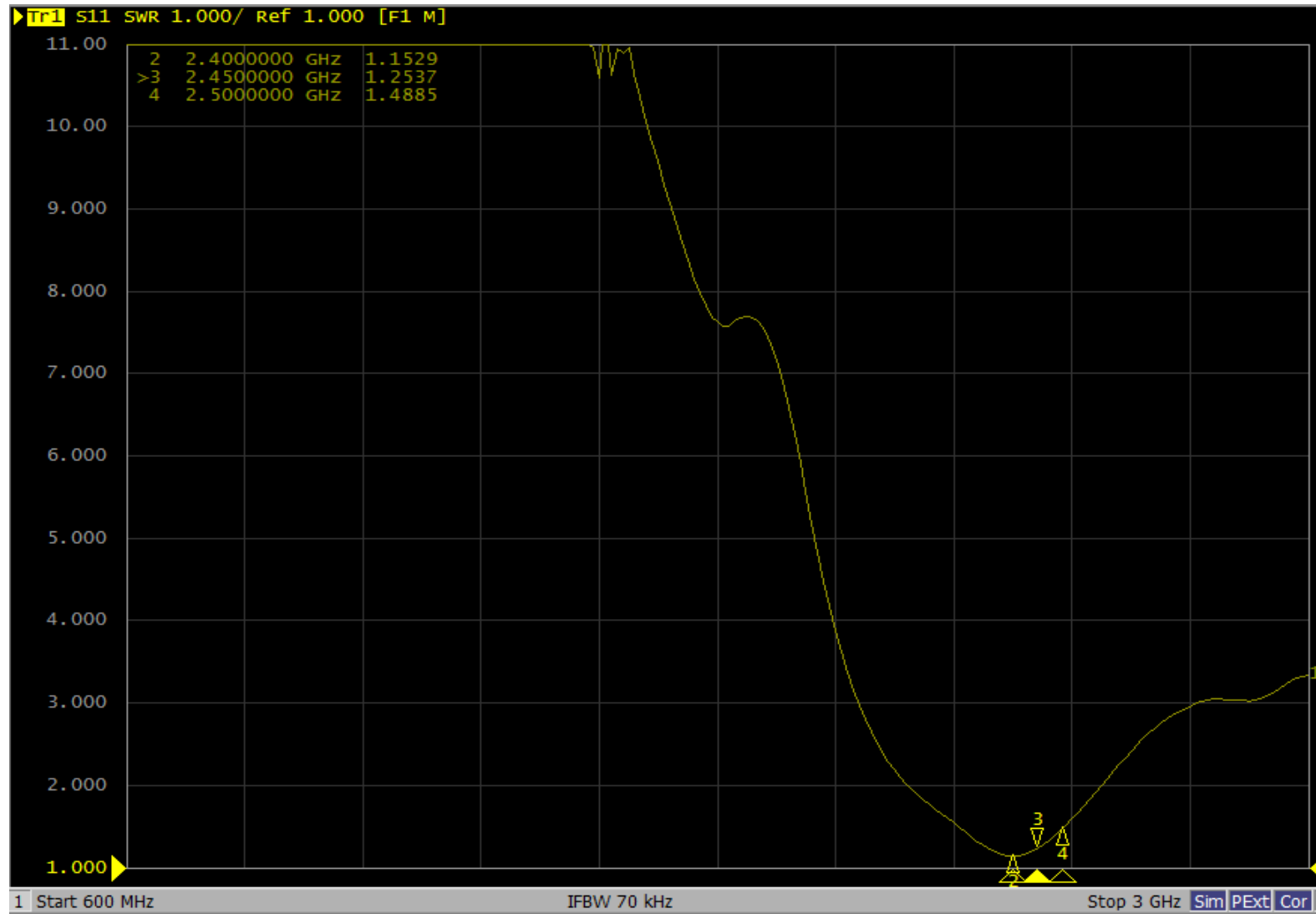
4. Antenna S11 data

GPS



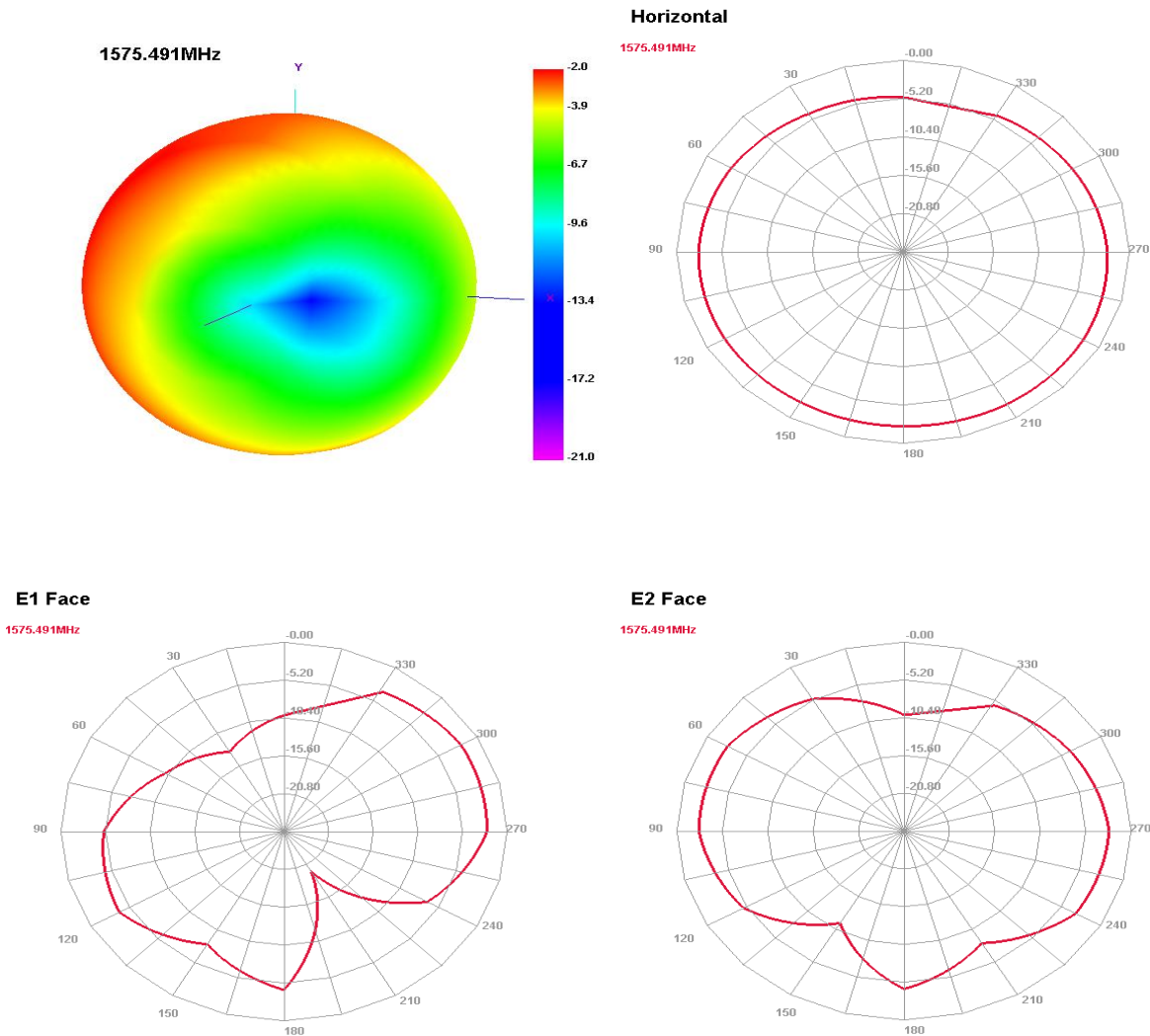
5. Antenna S11 data

BT



6. Antenna gain/Efficiency/Radiation pattern

GPS		
Freq (MHz)	Effi (%)	Gain (dBi)
1561.26	33.65	-2.14
1566.01	33.36	-2.23
1570.75	33.67	-2.23
1575.49	35.17	-1.97
1580.23	36.07	-1.82
1584.98	38.59	-1.49
1589.72	38.47	-1.46
1594.46	35.82	-1.77
1599.21	37.38	-1.59
1603.95	37.73	-1.55



7.Antenna gain/Efficiency/Radiation pattern

BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.36	1.02
2410	55	0.98
2420	56.54	1.02
2430	57.64	1.35
2440	55.59	1.28
2450	56.55	1.23
2460	49.88	0.5
2470	55.35	0.76
2480	55.04	0.44
2490	58.68	0.67
2500	56.07	0.24

