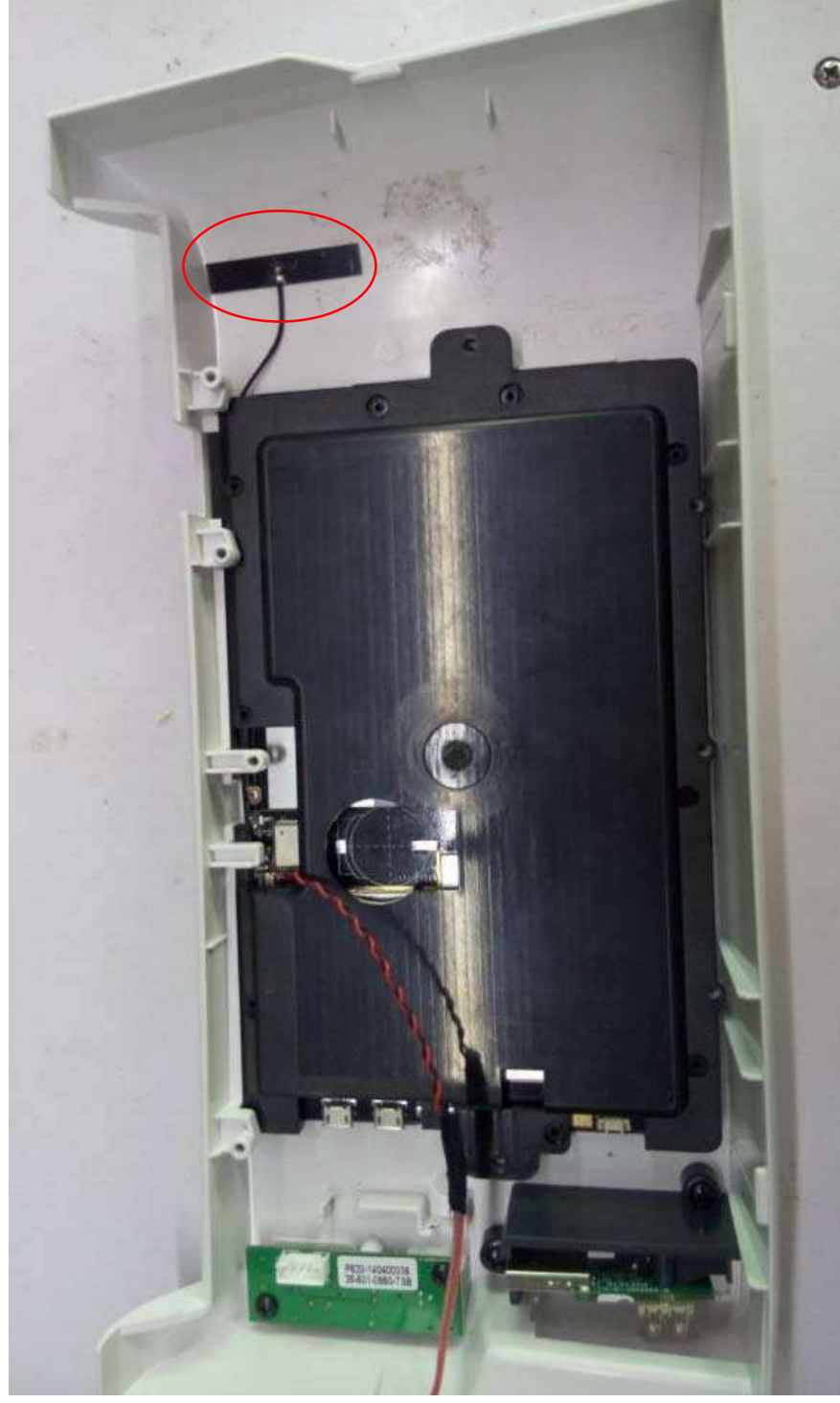


Dongguan HJ-Technology CO.,Ltd

Antenna placement



# TECHNICAL DATA

## RF Antenna Assembly Specification

### Electrical Properties

1.1	Frequency Range	2.4~2.5/5.15-5.825GHZ
1.2	Impedance	50 Ohm
1.3	VSWR	2.0 (Max)
1.4	Insertion Loss	2.0 db(Max)
1.5	Gain	Min.1.57 ~ Max.2.66 Gain

### Material Properties

2.1	Cable	Ø1.13 COAXIAL CABLE
2.2	Antenna	PCB FR-4 T=0.6

### Mechanical & Environmental

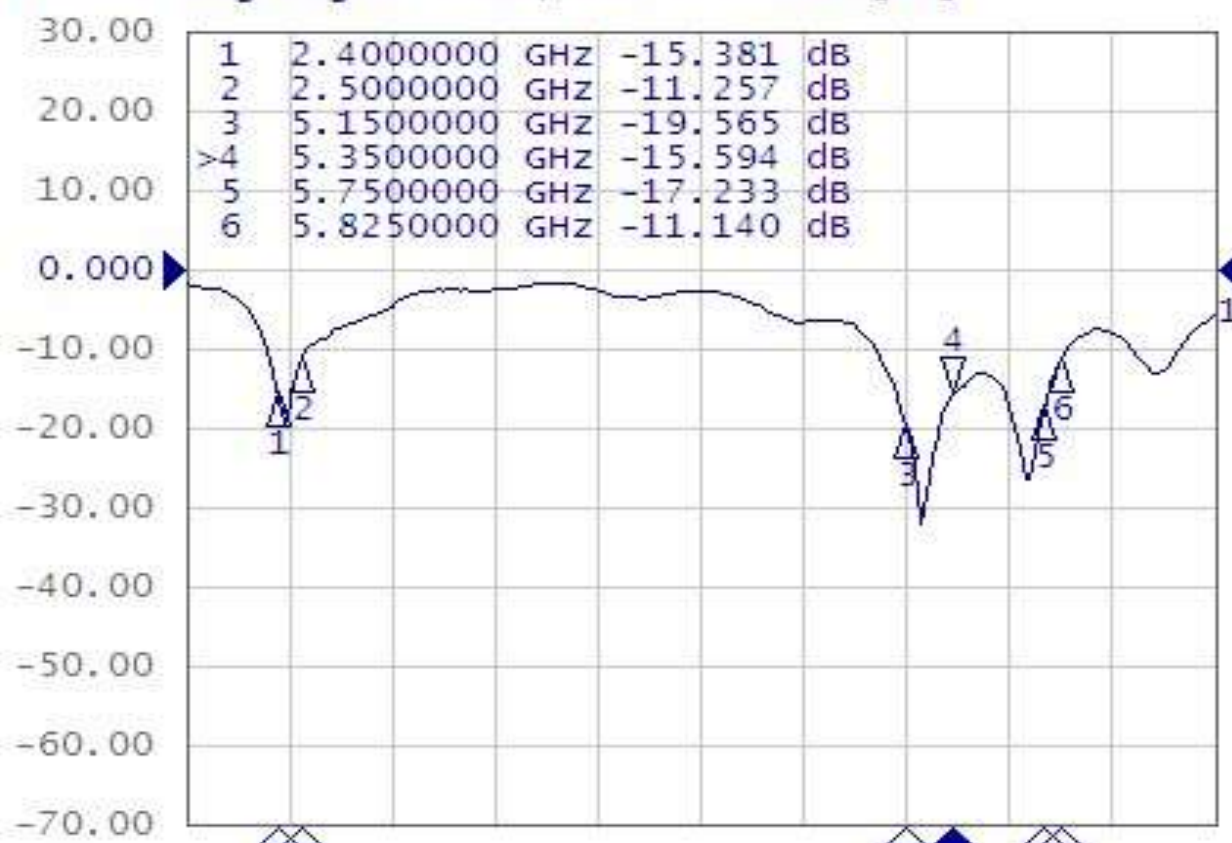
3.1	Operating Temperature	-20°C ~+65°C
3.2	Storage Temperature	-40°C ~+80°C
3.3	Relative Humidity	MIL-STD-202 , method 106
3.4	Vibration	MIL-STD-202 , method 213
3.5	Corrosion	MIL-STD-202 , method 101

# Dongguan HJ-Technology CO.,ltd

## Antenna Electricity Characteristics:

### 1. Return Loss:

Tr1 S11 Log Mag 10.00dB/ Ret 0.000dB [F1]



Antenna Frequency (2.40-2.50/5.15-5.825MHZ)

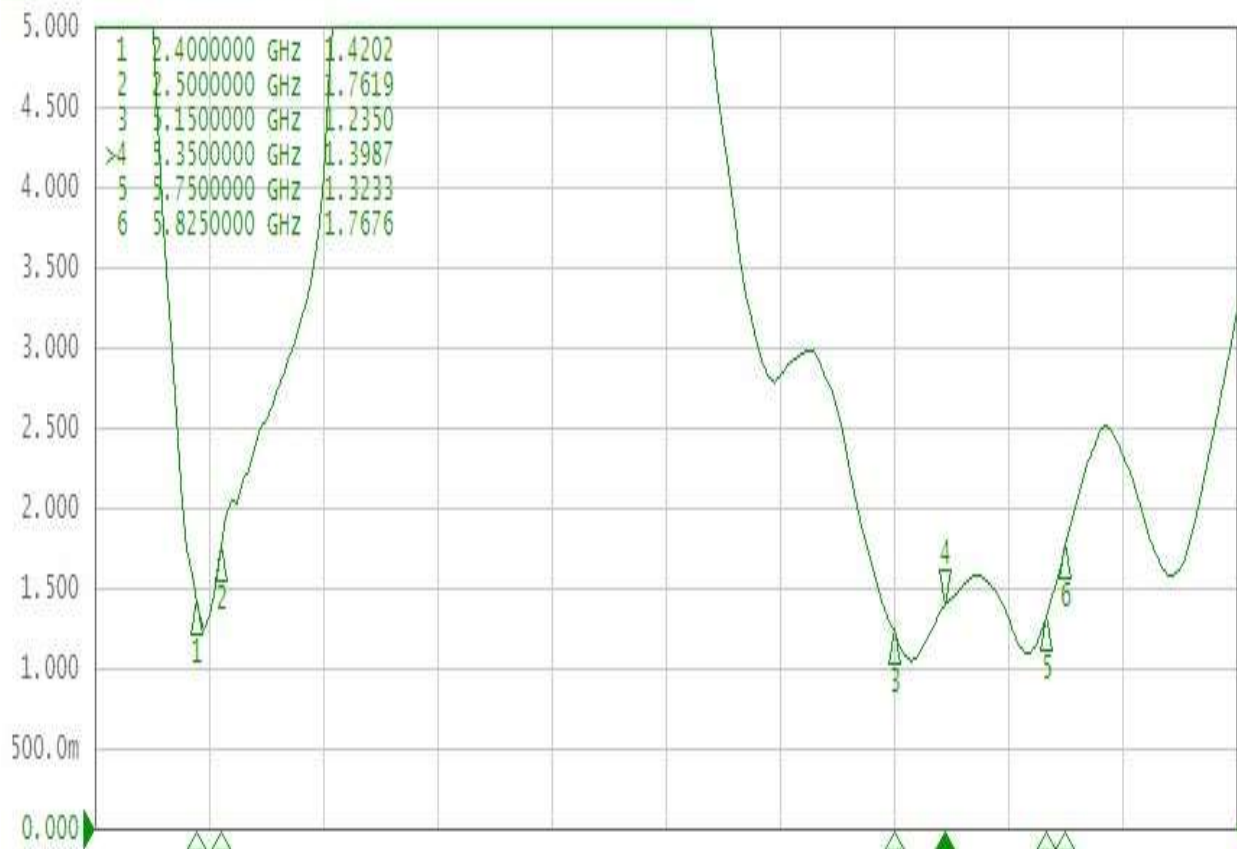
Frequency	2.4GHZ	2.5GHZ	5.15GHZ
Return Loss	-15.38	-11.25	-19.56
Frequency	5.35GHZ	5.75GHZ	5.825GHZ
Return Loss	-15.59	-17.23	-11.14

# Dongguan HJ-Technology CO.,ltd

## Antenna Electricity Characteristics:

### 2. VSWR:

Tr3 511 SWR 500.0m/ Ref 0.000 [F1]



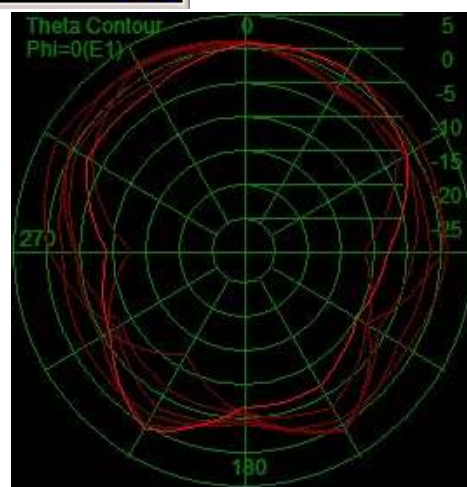
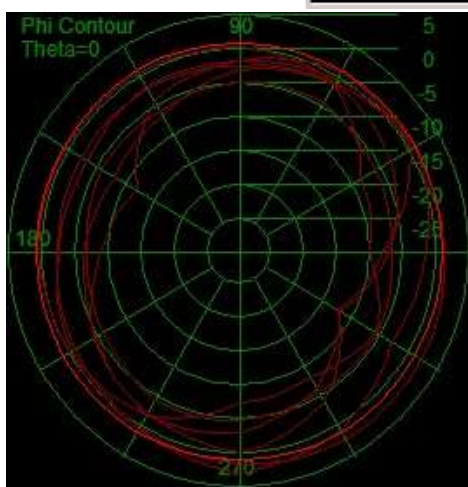
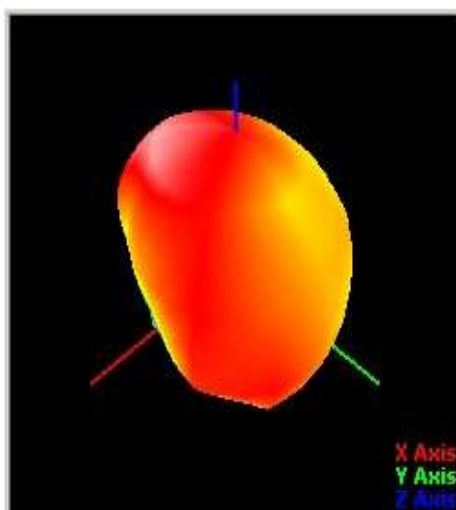
Antenna Frequency (2.40–2.50/5.15–5.825MHz)

Frequency	2.4GHZ	2.5GHZ	5.15GHZ
VSWR	1.42	1.76	1.23
Frequency	5.35GHZ	5.75GHZ	5.825GHZ
VSWR	1.39	1.32	1.76

# Dongguan HJ-Technology CO.,ltd

## Antenna Electricity Characteristics:

### 3. antenna 3d Field



Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.59	63.9%
2	2450.0	2.66	66.3%
3	2500.0	2.49	61.3%
4	5150.0	2.62	59.0%
5	5200.0	1.87	59.5%
6	5300.0	1.83	58.9%
7	5450.0	1.68	56.9%
8	5500.0	1.96	55.7%
9	5600.0	1.57	53.4%
10	5725.0	2.30	65.6%
11	5825.0	1.87	58.3%