

DGC3 BT ANT Specification

Shenzhen JINGSONG Technology Co., LTD

Address: 4th Floor, South Zone, Building B, Hefuqin Industrial Park, Industrial Park Road, Dalang Street, Longhua New District, Shenzhen

TEL:0755-23744434

FAX:0755-23744434

1. Product Description:

- (1) Product Type: Onboard antenna
- (2) Material: Metal
- (3) Frequency : 2400MHz-2500MHz

2.Storage Condition:

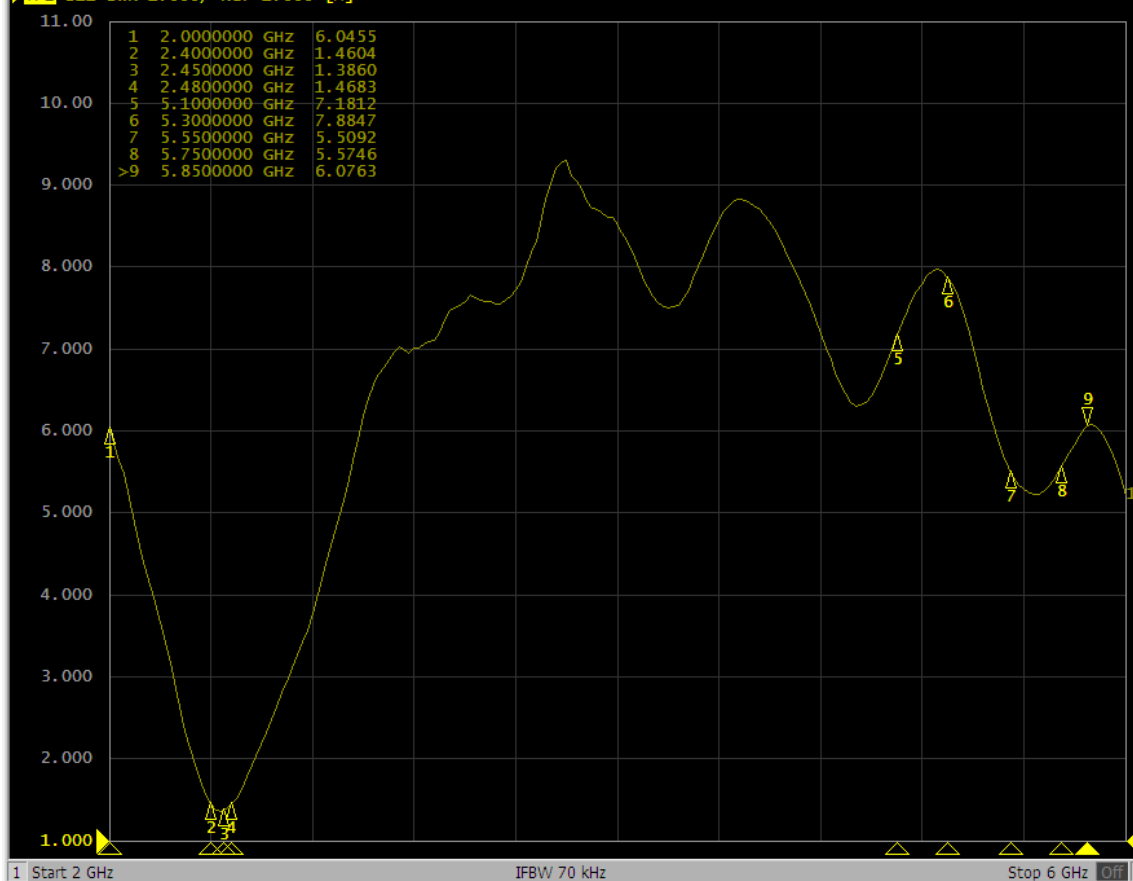
Temperature	-40 to +70
re	C 65±20 %
Humidity	RH

3.Operating Condition:

Temperature	-40 to +70
re	C 65±20 %
Humidity	RH

Frequency Band	MHZ
BT	2400MHz-2500MHz

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [M]



Display

Allocate Channels

Num of Traces
1

Allocate Traces

Display Mem

Data -> Mem

Data Math
OFF

Equation Editor...

Equation
OFF

Edit Title Label

Title Label
OFFGraticule Label
ONInvert Color
OFFFrequency
ON

1 Start 2 GHz

IFBW 70 kHz

Stop 6 GHz Off

4-5. Efficiency and Gain

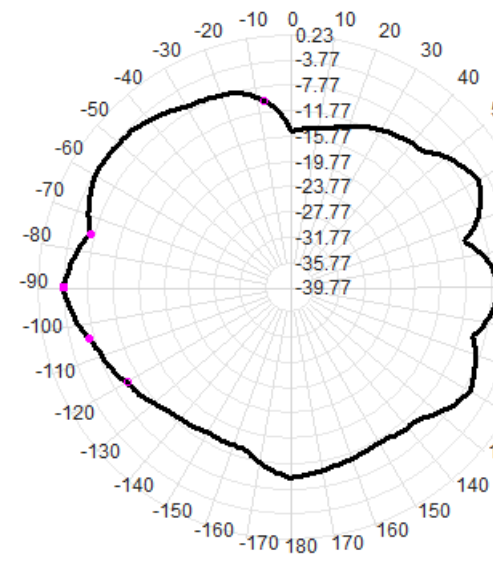
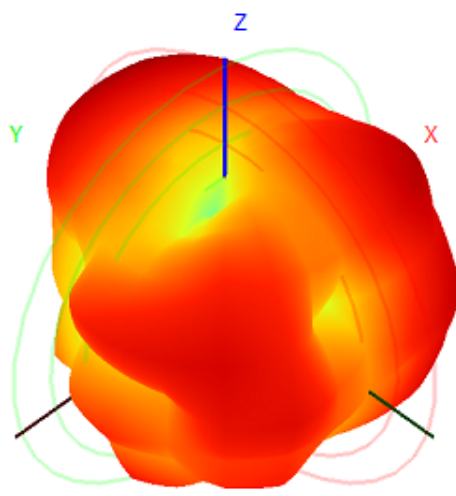
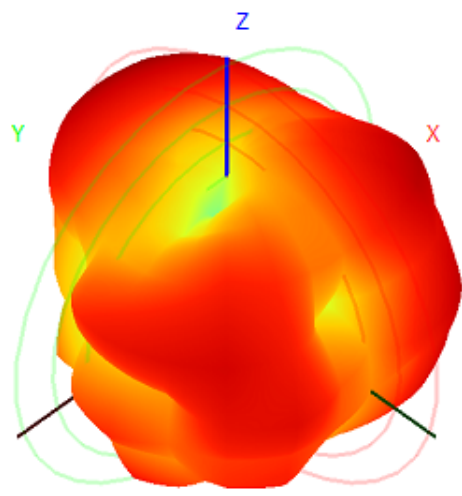
4-5.1 Measure method

1. Linking jig into network analyzer port and using a probing horn antenna to collect data.
2. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition

1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	38.6	0.73
2410	38.4	0.75
2420	38.9	0.64
2430	39.6	0.58
2440	40.2	0.71
2450	42.5	0.65
2460	43.2	0.66
2470	39.7	0.53
2480	39.1	0.72



5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 5-1-1

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