



品名：66BD-WGB-V1.0

History List

[illegible]

66BD-WGB-V1.0 Specification

1. Explanation of part number :

66BD – **WGB** – **V1.0**
(1) **(2)** **(3)**

(1) Model Name : 66BD

(2) Frequency : 1575MHz, 2400-2500MHz

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,BT, 2.4G WIFI	1575MHz, 2400-2500MHz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES = $\pm$

HOLEDIA = ±

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上海德门电子科技有限公司

Shanghai Deman Electronics Technology co., LTD

SCALE:

UNIT: mm

DRAWN BY:

CHECKED BY:

DESIGNED BY: 李进柱

APPROVED BY:

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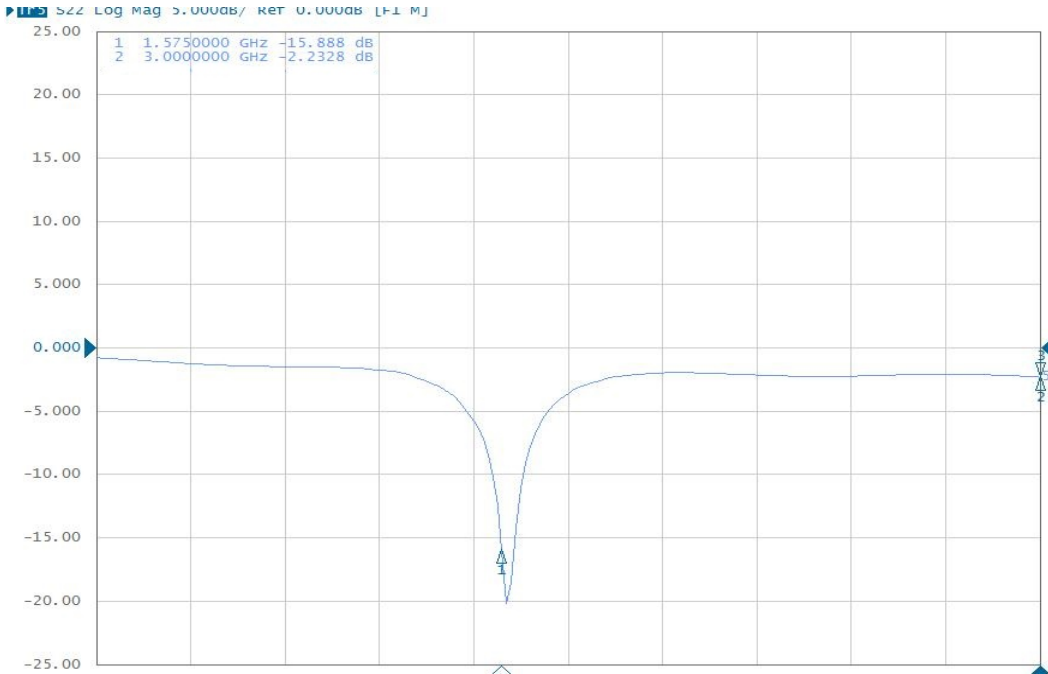
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2-3. S11 ,Efficiency ,Matching and Active Data :

2-3.1 S11:

Frequency Band	1575	2400		
2-3-1. Typical Value:	≤ -15.5	≤ -9.5		
2-3-2Measuring Method	1. A 50 Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the S11 2. Keeping this jig away from metal at least 20 cm.			
2-3-3Picture				

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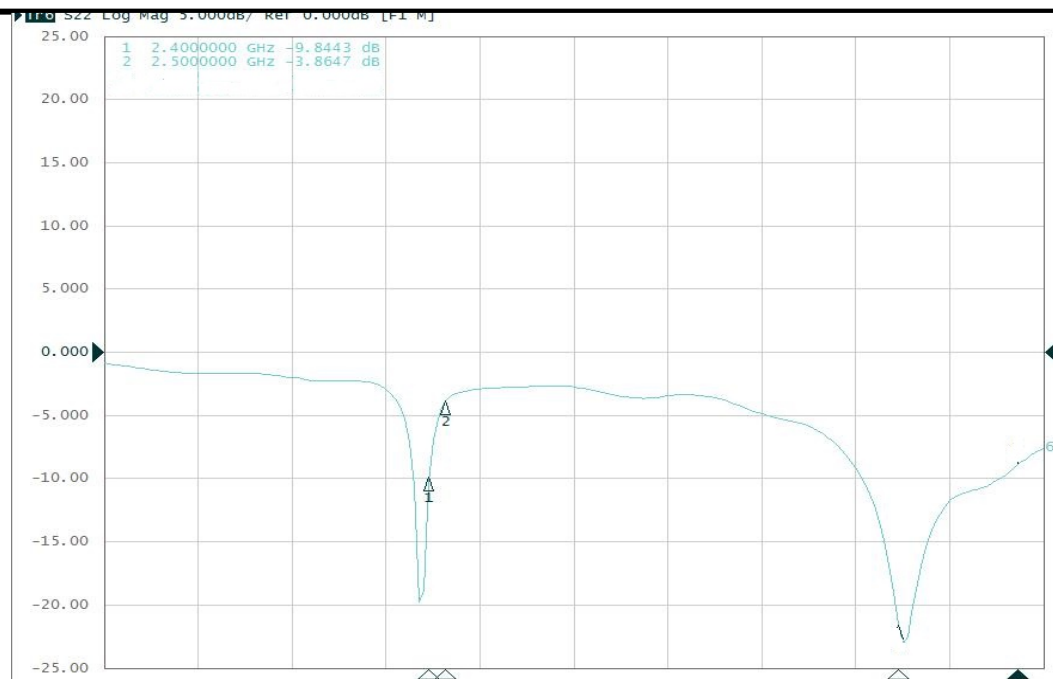
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2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

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ANGLES=±

HOLEDIA=±

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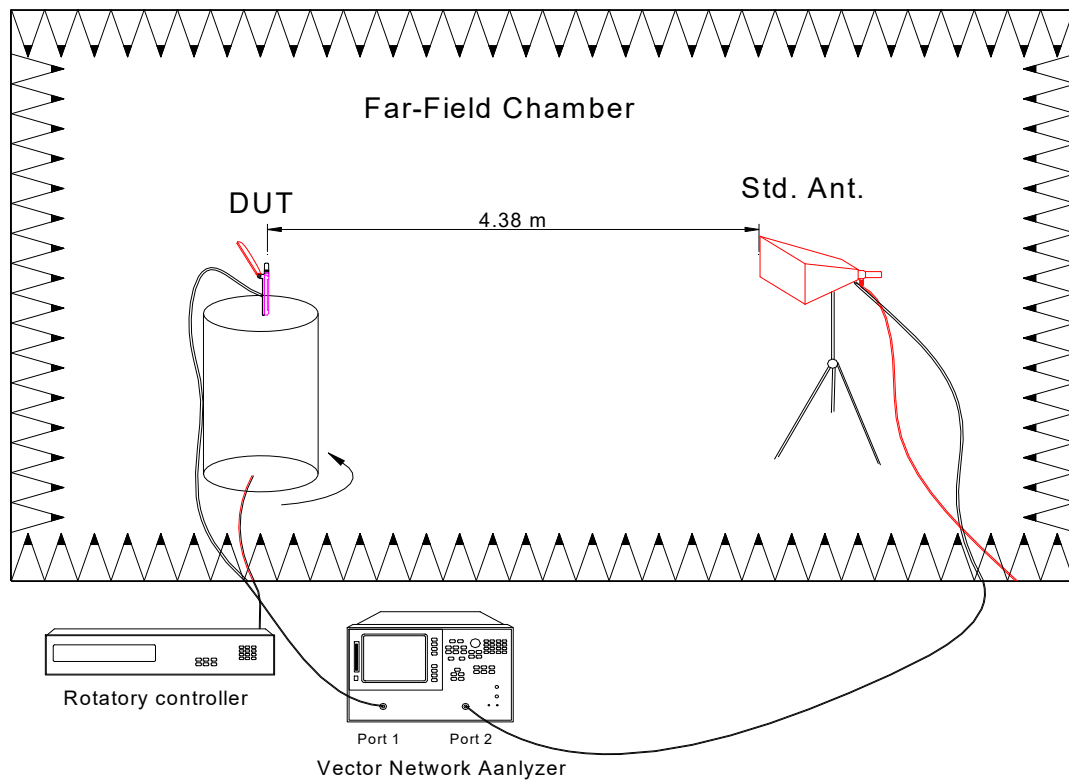
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2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet 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 600MHz ~6GHz)

2-4-3 Antenna Efficiency

GPS				BT&WIFI			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1550	-2.78	-5.92	25.59	2400	-5.20	-9.16	12.13
1555	-2.60	-5.75	26.61	2410	-5.20	-9.5	11.22
1560	-2.42	-5.55	27.86	2420	-5.82	-9.87	10.30
1565	-2.20	-5.32	29.38	2430	-6.29	-10.31	9.31
1570	-2.00	-5.13	30.69	2440	-6.73	-10.77	8.38
1575	-1.88	-5.04	31.33	2450	-7.30	-11.33	7.36
1580	-1.76	-4.95	31.99	2460	-7.93	-11.9	6.46

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ANGLES=± HOLEDIA=±

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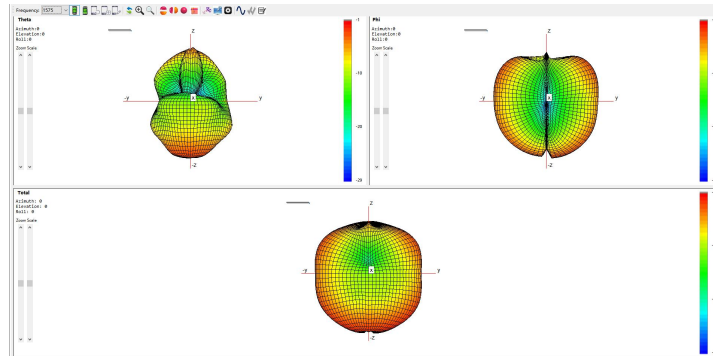
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1585	-1.63	-4.82	32.96	2470	-8.48	-12.43	5.71
1590	-1.50	-4.69	33.96	2480	-9.05	-12.94	5.08
1595	-1.45	-4.69	33.96	2490	-9.93	-13.8	4.17
1600	-1.49	-4.81	33.04	2500	-10.70	-14.53	3.52

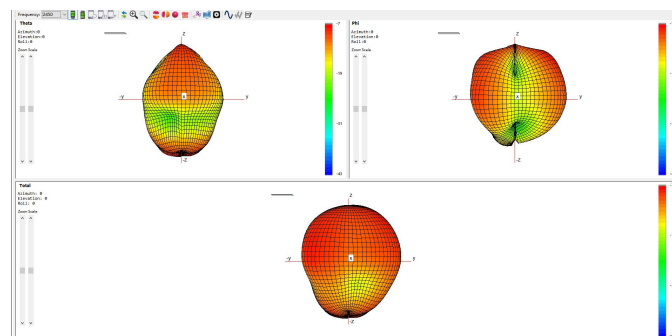
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3. 3D Radiation Pattern

GPS [1575MHz]



BT&2.4G WIFI [2450MHz]



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 $X=\pm 2$ $X.X=\pm 0.1$ $X.XX=\pm 0.05$
 ANGLES= $\pm$ HOLEDIA= $\pm$

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4. Antenna Dimensions:

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