

WAG-B.01.L.0806 Specification

1. Explanation of part number :

WAG - B - 01 - L - 0806
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) Frequency : 1575.42Mhz , 2400-2500Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 047

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz,5150-5850Mhz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

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SCALE :

UNIT : mm

DRAWN BY : 程国富

CHECKED BY : 于超群

DESIGNED BY : 于超群

APPROVED BY : 夏彪

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2-3. VSWR ,Efficiency , and Active Data :

2-3.1 VSWR:

Frequency Band	1575.42	2400	2500	5550
2-3-1. Typical Value:	-6.3	-11.2	-10.1	-25.8
2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the pcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm. 			
2-3-3 Picture				

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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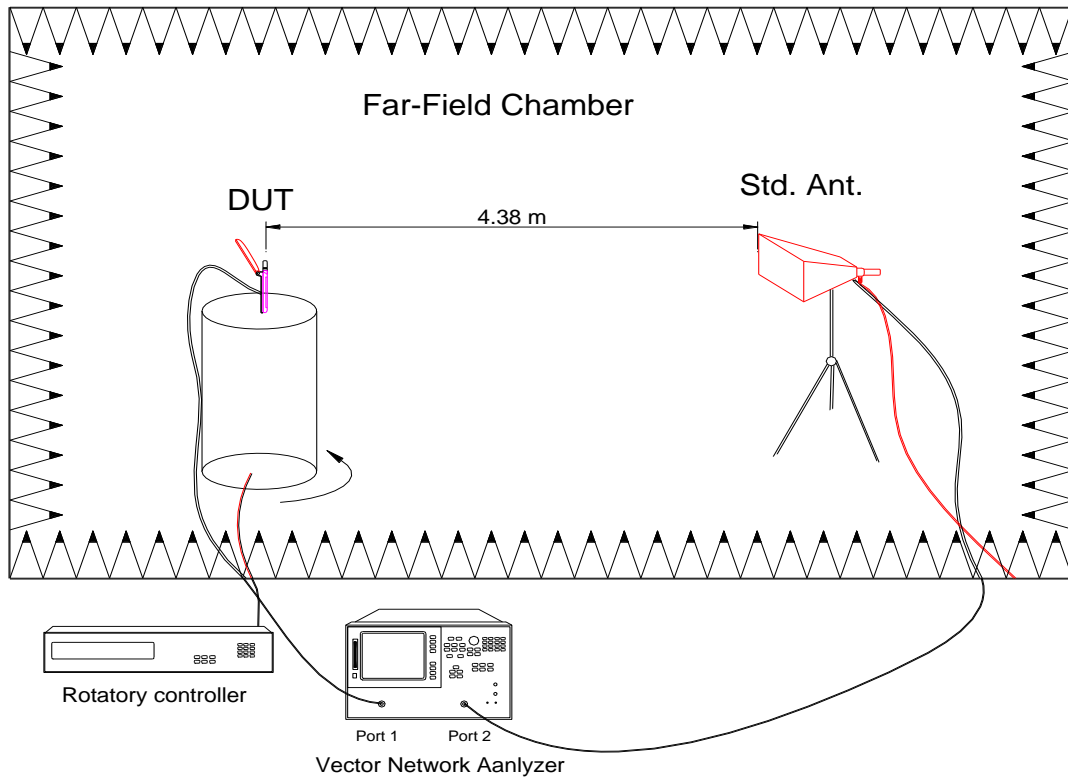
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2-4-2 Chamber definition



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 700MHz ~6GHz)

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2-4-3 TRP/TIS

WIFI-B	12.62	
	12.48	
	11.13	-80.02

WIFI-A	9.86	
	10.21	
	9.88	-69.79

GPS	42.1	-152.28
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2-4-4 Antenna Efficiency

Frequency	Efficiency	Efficiency . dB	Gain . dBi
1550000000	20%	-7.08	-3.77
1555000000	21%	-6.73	-3.43
1560000000	23%	-6.42	-3.17
1565000000	25%	-6.08	-2.67
1570000000	26%	-5.78	-2.40
1575000000	28%	-5.54	-2.41
1580000000	30%	-5.27	-2.46
1585000000	31%	-5.12	-2.52
1590000000	31%	-5.15	-2.68
1595000000	30%	-5.22	-2.69
1600000000	29%	-5.38	-2.68
2400000000	23%	-6.43	-1.37
2410000000	23%	-6.33	-1.32
2420000000	23%	-6.32	-1.32
2430000000	24%	-6.20	-1.37
2440000000	25%	-6.10	-1.28
2450000000	25%	-6.06	-1.21
2460000000	24%	-6.14	-1.38
2470000000	24%	-6.19	-1.32
2480000000	23%	-6.32	-1.27
2490000000	22%	-6.51	-1.27
2500000000	22%	-6.56	-1.30

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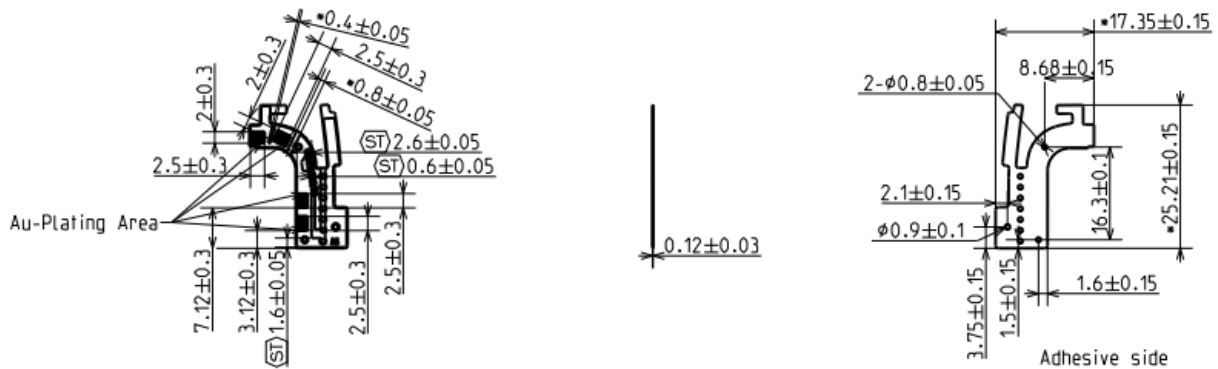
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Frequency	Efficiency	Efficiency . dB	Gain . dBi
5150000000	20%	-7.03	-5.42
5200000000	21%	-6.85	-5.63
5250000000	22%	-6.56	-4.42
5300000000	23%	-6.31	-4.44
5350000000	24%	-6.24	-4.41
5400000000	24%	-6.25	-2.2
5450000000	26%	-5.91	-2.94
5500000000	26%	-5.82	-2.26
5550000000	27%	-5.73	-2.1
5600000000	26%	-5.93	-4.6
5650000000	25%	-5.97	-5.37
5700000000	24%	-6.17	-5.69
5750000000	22%	-6.50	-5.43
5800000000	23%	-6.37	-5.41
5850000000	24%	-6.22	-5.65

3. Antenna Dimensions:



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