



品名：SE511 3IN1 V1.0 工规

History List

[illegible]

B.1.01.Y.1016 Specification

1. Explanation of part number :

B.1 : **01** : **Y** : **1016**
(1) (2) (3) (4)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) State : PVT

(4) Serial number:1016

2. Electrical Specification :

2-1. Frequency Band:

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

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

Deman 深圳市海德门电子有限公司

SCALE:

UNIT: mm

DRAWN BY:

CHECKED BY: 付志强&
王鑫

DESIGNED BY:

APPROVED BY: 王鑫

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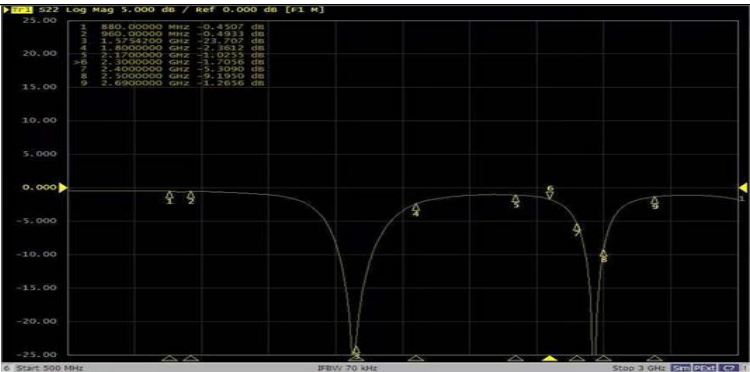
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2-3. S11 ,Efficiency , and Active Data :

2-3.1 S11:

Frequency Band	1575.42	2400	2500
2-3-1. Typical Value:	-23.5	-5.3	-9.1
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 VSWR. 2. Keeping this jig away from metal at least 20 cm.		
2-3-3Picture			

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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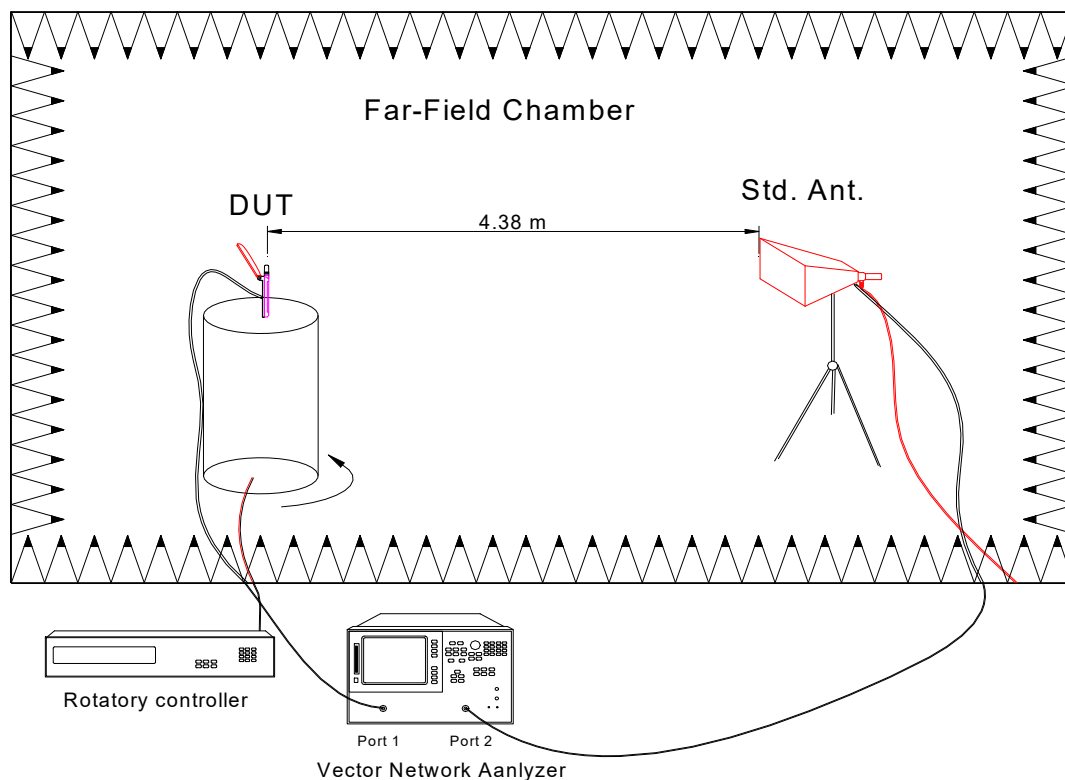
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2-4-2 Chamber definition



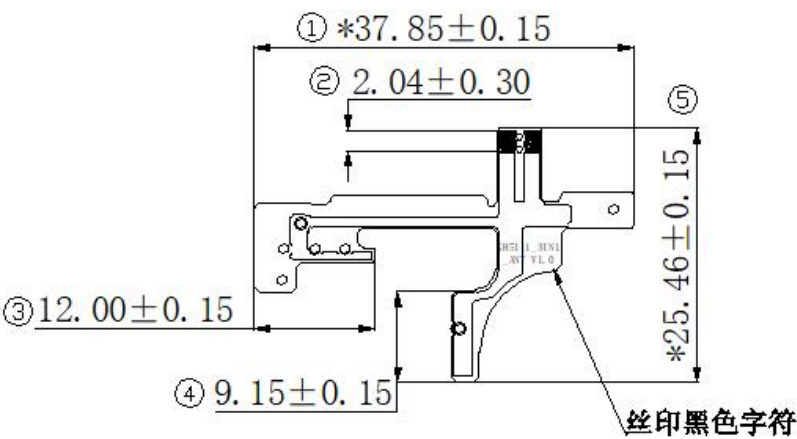
1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

2-4-3 Antenna Efficiency

UNLESS OTHER SPECIFIED TOLERANCES ON: $X = \pm 2$ $X.X = \pm 0.1$ $X.XX = \pm 0.05$ ANGLES = $\pm$ HOLEDIA = $\pm$		Deman 深圳市海德门电子有限公司	
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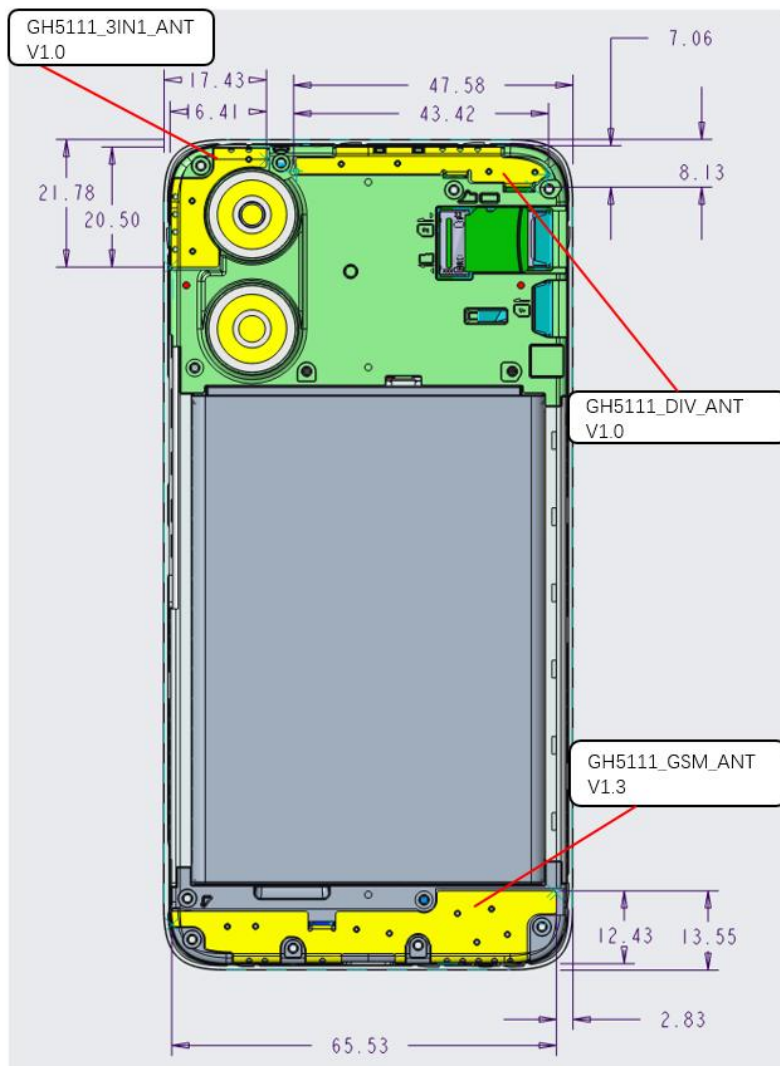
Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
1550	47%	-3.27	0.64
1560	46%	-3.36	0.48
1570	45%	-3.3	0.83
1580	44%	-3.54	0.63
1590	41%	-3.72	0.55
1600	42%	-3.97	0.26
2400	45%	-3.45	-0.45
2420	41%	-3.83	-0.32
2440	43%	-3.51	-0.27
2460	41%	-3.90	-0.38
2480	38%	-4.22	-0.31
2500	39%	-4.14	-0.42
2520	40%	-4.03	-0.31
2540	36%	-4.40	-0.81

3. AntennaDimensions:



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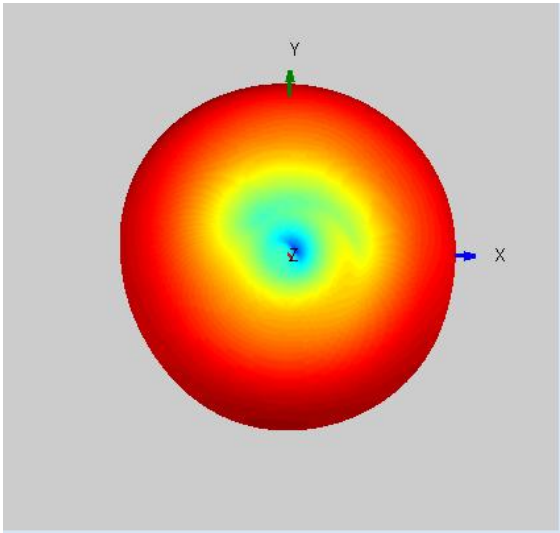
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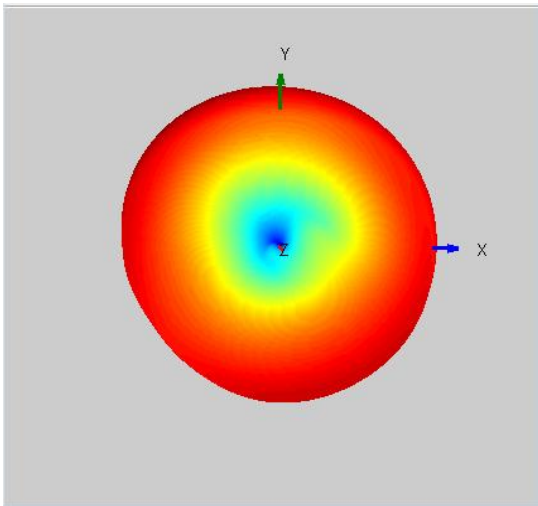
4. 3D Radiation Pattern

3IN1 ANT_ 1575Mhz (Frequency=1575MHz)

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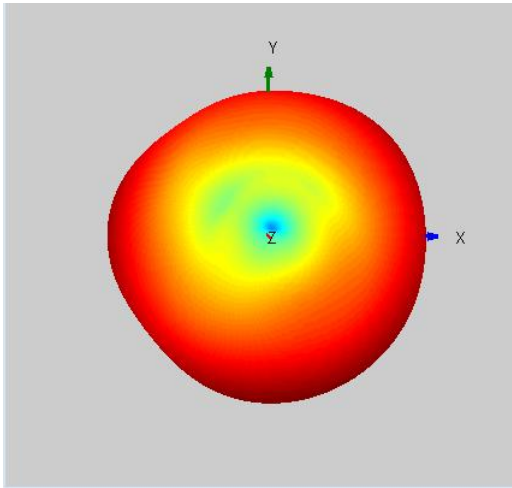


3IN1 ANT_2400Mhz(Frequency=2420MHz)

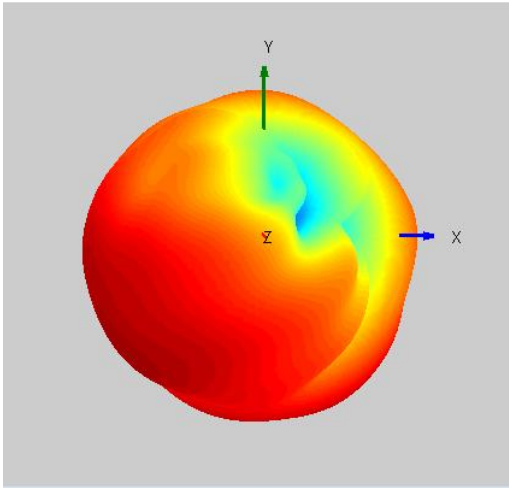


3IN1 ANT_2400Mhz(Frequency=2450MHz)

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3IN1 ANT_2483Mhz(Frequency=2483MHz)



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