

WM29 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 : 2400-2500Mhz, 5150-5850Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 00

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
WIFI2.4G/5G	2400-2500 Mhz/5150-5850MHZ

2-2. Antenna Pattern:PIFA

2-3. 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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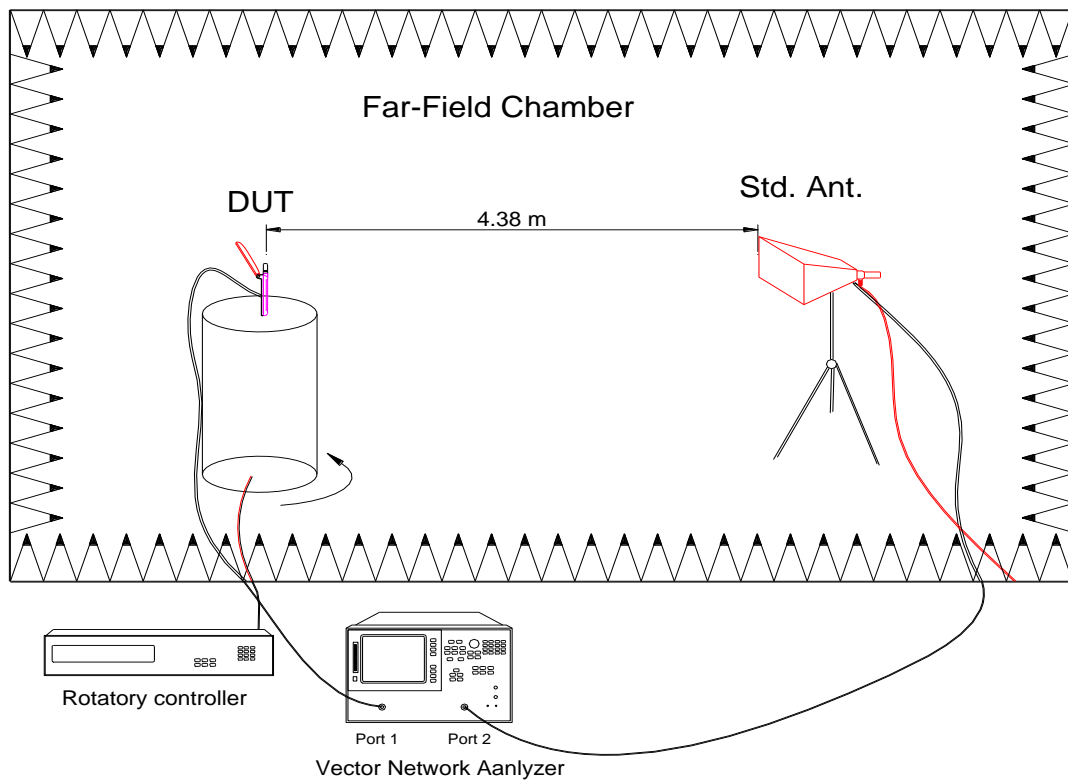
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2-3. Measure and Chamber

2-3-1 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

2-3-2 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

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2-3-3 Antenna OTA

WIFI 2.4G			WIFI 5G		
TRP (dBm)	1	12.96	TRP (dBm)	40	10.32
	6	12.72		56	11.23
	11	13.26		157	10.36
TIS (dBm)	11	-83.59	TIS (dBm)	157	-87.89

2-3-4 Antenna Efficiency

WIFI2.4G

Fre	Eff (%)	Eff (db)	Gain (dBi)
2400000000	36%	-4.46	-1.39
2410000000	37%	-4.28	-1.07
2420000000	38%	-4.15	-1.30
2430000000	39%	-4.13	-1.22
2440000000	38%	-4.22	-1.06
2450000000	37%	-4.29	-1.26
2460000000	37%	-4.34	-1.17
2470000000	36%	-4.43	-1.21
2480000000	35%	-4.54	-1.15
2490000000	34%	-4.73	-1.46
2500000000	33%	-4.81	-1.55

WIFI 5G

Fre	Eff (%)	Eff (db)	Gain (dBi)
5150000000	22%	-6.49	-1.52
5170000000	21%	-6.78	-1.52
5190000000	21%	-6.68	-1.49
5210000000	22%	-6.66	-1.60
5230000000	21%	-6.85	-1.79
5250000000	21%	-6.79	-1.71
5270000000	23%	-6.41	-1.91
5290000000	23%	-6.43	-1.53
5310000000	22%	-6.58	-1.51
5330000000	22%	-6.58	-1.66
5350000000	22%	-6.59	-1.87
5370000000	21%	-6.76	-1.48
5390000000	22%	-6.63	-1.51
5410000000	21%	-6.73	-1.50

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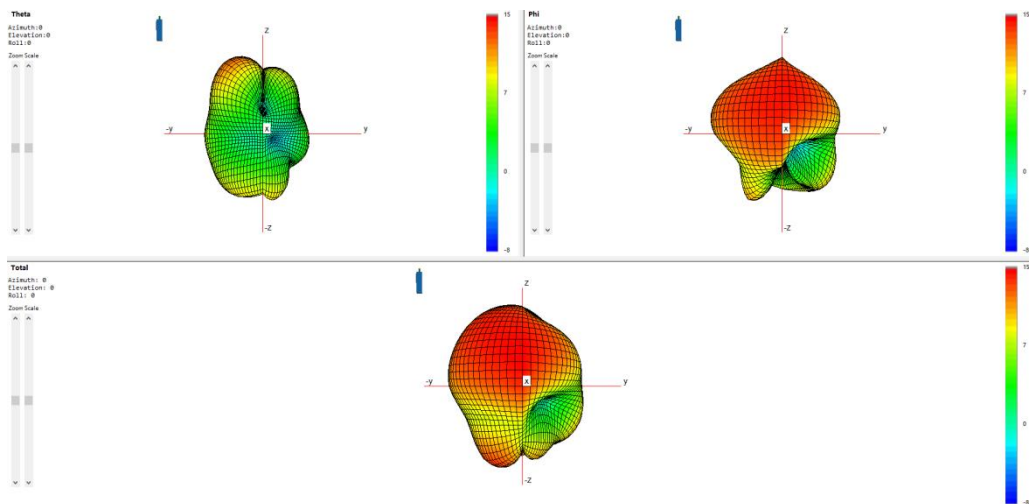
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5430000000	21%	-6.72	-1.58
5450000000	21%	-6.87	-1.54
5470000000	20%	-6.93	-1.59
5490000000	21%	-6.74	-1.56
5510000000	22%	-6.66	-1.77
5530000000	21%	-6.72	-1.62
5550000000	21%	-6.72	-1.63
5570000000	22%	-6.68	-1.53
5590000000	22%	-6.53	-1.78
5610000000	23%	-6.31	-1.64
5630000000	24%	-6.14	-1.54
5650000000	25%	-6.04	-1.51
5670000000	26%	-5.81	-1.71
5690000000	27%	-5.75	-1.73
5710000000	27%	-5.64	-1.62
5730000000	28%	-5.47	-1.87
5750000000	29%	-5.35	-1.81
5770000000	30%	-5.20	-1.84
5790000000	31%	-5.11	-1.71
5810000000	31%	-5.04	-1.61
5830000000	31%	-5.05	-1.57
5850000000	32%	-4.89	-1.50

2.3.5 3D Field Pattern

WiFi2.4G 3D Field pattern



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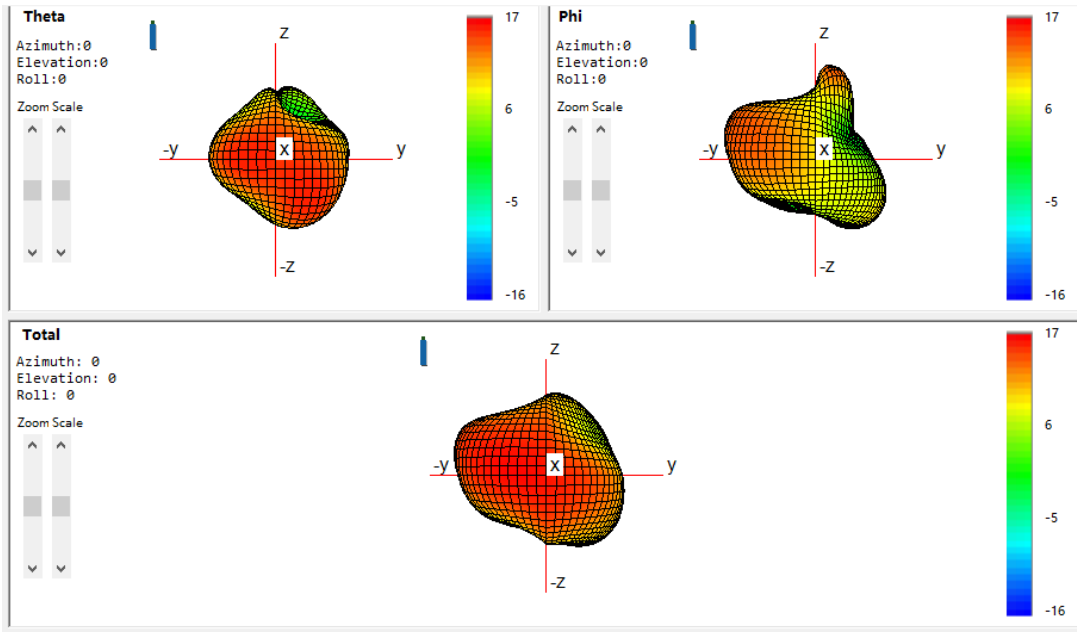
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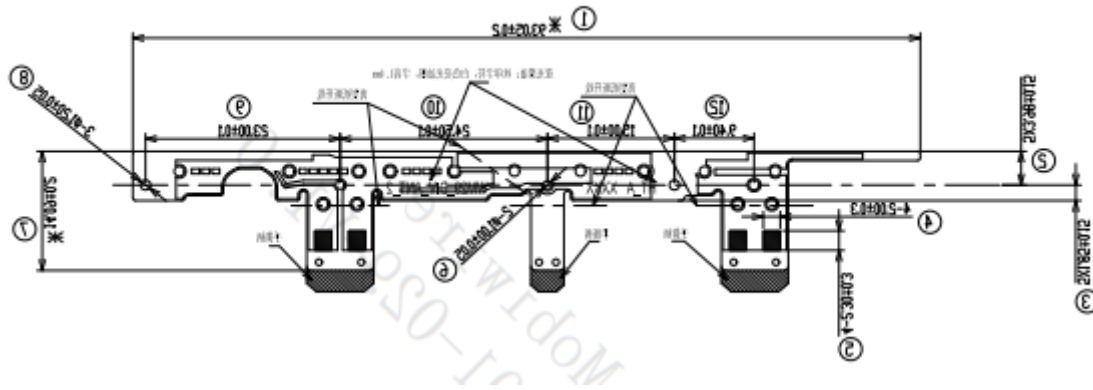
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WIFI 5G 3D Field pattern



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1. Antenna Dimensions:



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