# WM23-LTE-V1.6 Specification

1. Explanation of part number :

<u>WM23</u> – <u>LTE</u> – <u>V1.6</u>
(1) (2) (3)

(1) Model Name: WM23

(2) Frequency: 2350-2550Mhz

(3) Suffix:V1.6

## 2. Electrical Specification:

### 2-1. Frequency Band:

Frequency Band	MHz			
WIFI	2350-2550Mhz			

### 2-2. Impedance

50 ohm nominal

#### 2-3 VSWR:

Frequency 2400 2500 Band	Frequency Band	2400	2500				
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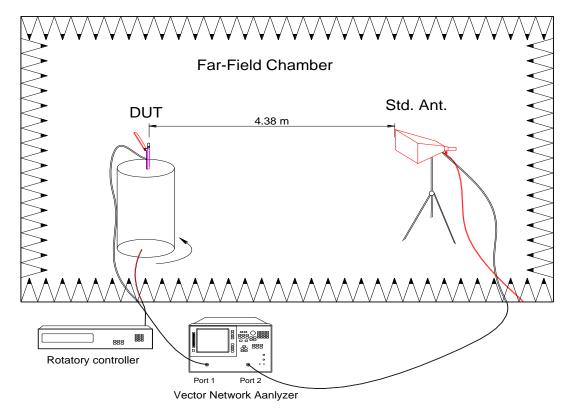
2-3-1. Typical Value:	-11.	.3	-13.3							
2-3-2Measurin	2. Keeping this jig away from metal at least 20 cm.									
	Trt Sil Log Wag 5.000ds/ Ref 0.000ds [FL W]									
	2500	1 2. >2 2.	.4000000 GHZ -11. .5000000 GHZ -13	.335 dB .309 dB						
	2000									
	1.500									
	1.000									
	5000									
0.0.00:-4										
2-3-3Picture	0.000									
	-5000									
	-1.000								$\lambda_{3}$	
	-1.500									
									$\bigvee$	
	-2000									
	-2500									
	1 Start: 600 I	MHz				OBW 70 kHz				Stop

### 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

### 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 quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

#### 2-4-3 Antenna OTA

## 2-4- Antenna Efficiency

Frequency	Gain . dB	Effic(dB)	Effi (%)
2350	0.99	-5. 13	31%
2360	0.57	-5. 45	28%
2370	0.35	-5. 36	29%
2380	0.73	<b>−5.</b> 28	30%
2390	1.05	-5. 20	30%
2400	0. 52	-5. 36	29%
2410	0.46	-5. 42	29%
2420	0.66	-5. 41	29%
2430	-0.22	-5. 77	26%
2440	-0. 26	-5. 57	28%
2450	0.05	<b>−5.</b> 51	28%
2460	<b>−0.</b> 52	-5. 80	26%
2470	-0.96	-5. 86	26%
2480	-0.75	-5. 79	26%
2490	-1.21	-6. 14	24%
2500	-1.33	-6.00	25%
2510	-0.95	-5. 77	27%
2520	-1.09	-5. 94	25%
2530	-1.58	-6. 10	25%
2540	-1.30	-5. 91	26%
2550	-1.34	-6. 16	24%

# 3. Antenna Dimensions ( mm ) :

