

客戶名稱：
CUSTOMER

复志

Document No.: ENS000111040

Approval Sheet Rev.: A0

Spec. Rev.: A0

受 控

2019-12-10

承 認 書

APPROVAL SHEET

產品品名/Product Model
No.:

WA-F-LB-02-138

客戶料號/Customer No.:

5.09.05019A01

發行日期/ Issue Date:

2018/2/5

承認日期/ Approved Date:

2018/2/5

Approved by customer: (signing or stamping here)

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WA-F-LB-02-138 Specification

1. Explanation of part number :

WA - F - LB - 02 - 138
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPCB+Cable

(3) Frequency : 2400~2500/5100-5800Mhz;

(4) Coaxial Cable Type : 02

(5) Suffix : 138

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
WIFI	2400~2500/5100-5800

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : 冯振宇 CHECKED BY : 张涛

DESIGNED BY : 张旭 APPROVED BY : 徐克文

TITLE : WA-F-LB-02-138 Specification



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2-3. VSWR:

Frequency Band					
	2400	2500	5100	5800	
2-3-1. Typical Value:	≤ 3.0	≤ 3.0	≤ 4.0	≤ 4.0	
2-3-2 Measuring 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.				
2-3-3 Picture					

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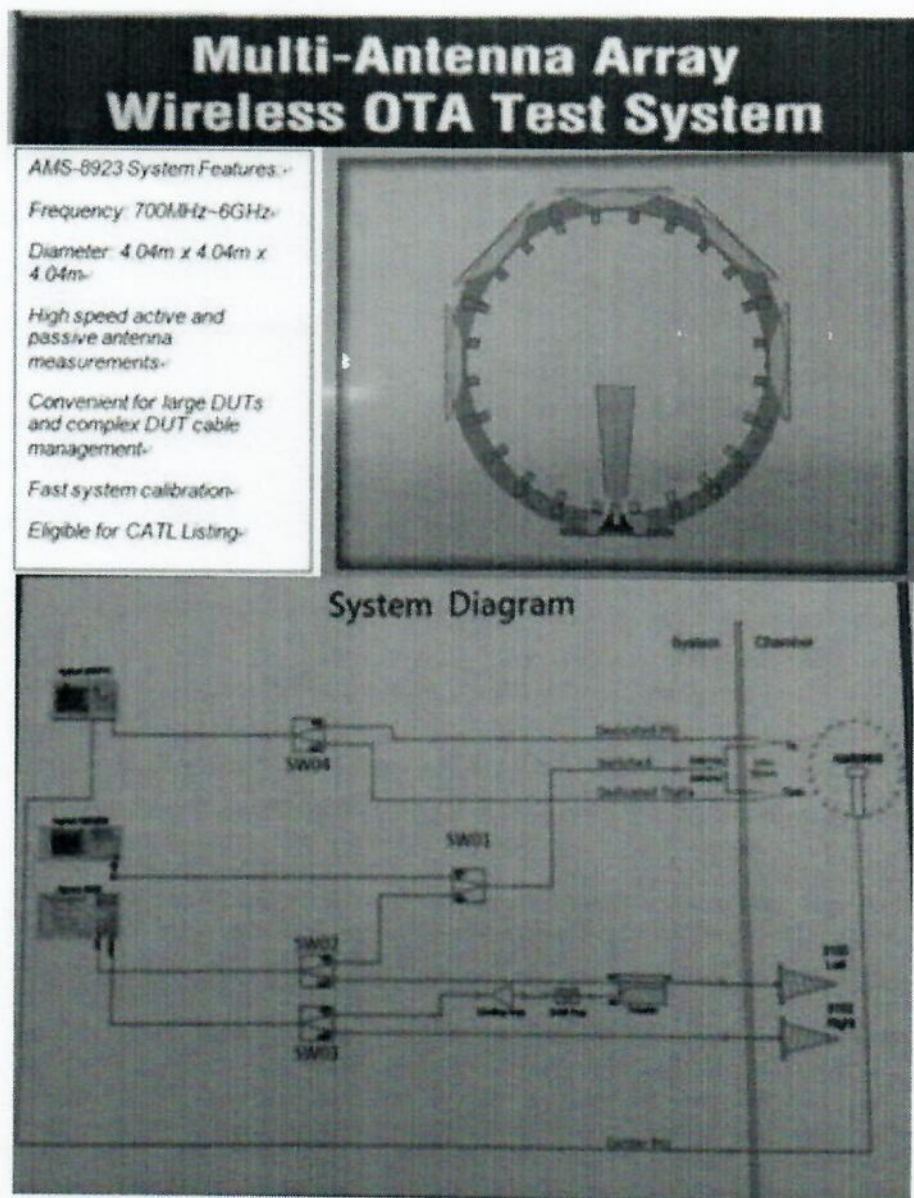
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2-4. Gain and Efficiency

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



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2-4.3 Gain and Efficiency

2-4.3.1: 电气规格要求:

Frequency Band(MHz)	2400	2500	5100	5800
Efficiency(%)	≥ 35.00	≥ 35.00	≥ 35.00	≥ 35.00
Peak Gain(dBi)	≥ 2.00	≥ 2.00	≥ 1.00	≥ 1.00

2-4-3.2: 实际测试数据:

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	44.04	4.10
2500	44.89	4.33
5100	43.08	4.27
5800	45.03	4.26

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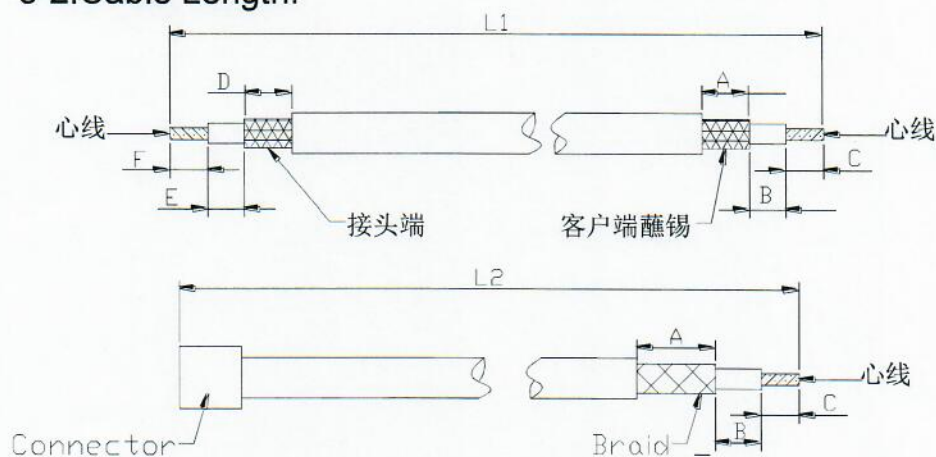
3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure



3-2. Cable Length:



Connector: MHF-4L Plug Connector; Cable: WIR, RF-1.13/50, BLACK

L1 : 138.7 ±2mm L2: 140±2mm

A : 1.5±0.5mm

B : 1.1±0.5mm

C: 1.0±0.5mm

D: 1.2±0.1mm

E: 0.72±0.1mm

F: 1.05±0.1mm

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X.XX=±

ANGLES=±

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SCALE :

UNIT : mm

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