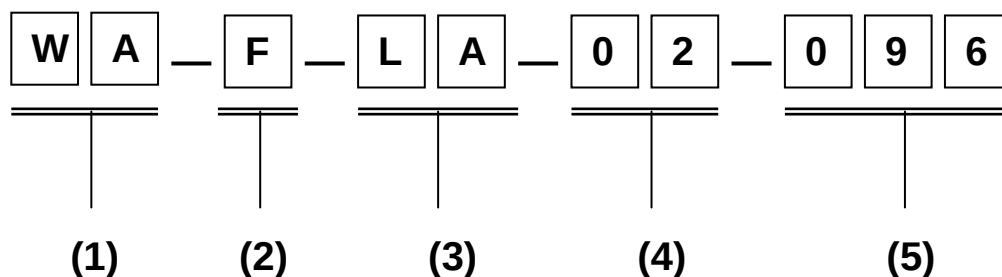


Embedded Single-Band Antenna for WA-F-LA-02-096

1. Explanation of part number :



- (1) Product type : Wireless Antenna
- (2) Material : FPCB
- (3) Frequency : 2400~2500 MHz
- (4) Coaxial Cable Type : Black
- (5) Suffix : 096

2. Electrical Specification :

Those specifications were specially defined for model, and all characteristics were measured under the model's handset testing jig.

2-1. Frequency Band :

Frequency Band	MHz
Wi-Fi	2400~2500 MHz

2-2. Impedance :

50 ohm nominal

2-3. Matching circuit :

None

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:黃建棠

CHECKED BY:鄭榮謀

DESIGNED BY:洪賢修

APPROVED BY:謝立庭

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TITLE : Embedded Single-Band Antenna for
WA-F-LA-02-096

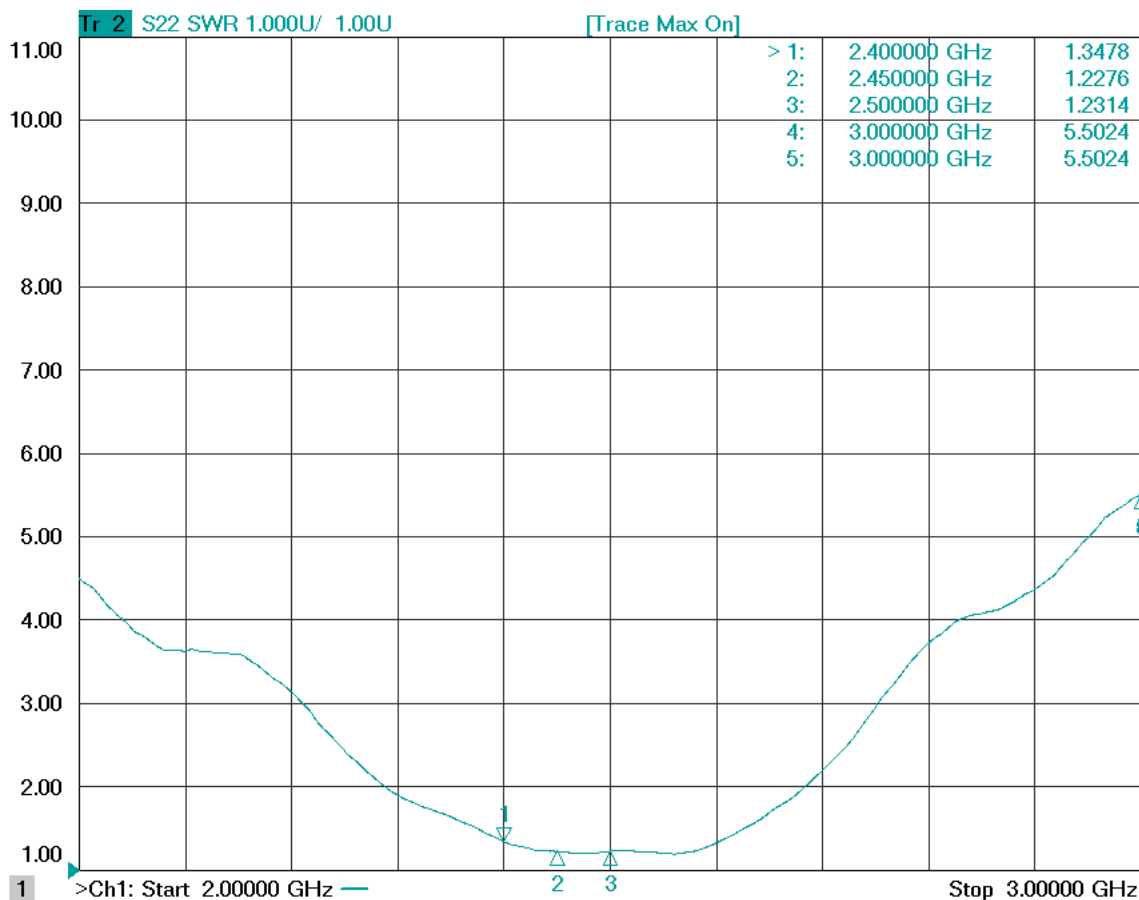
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2-4. VSWR :

Frequency (Unit MHz)	2400	2450	2500
VSWR	1.34	1.22	1.23



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=N/A X.X=N/A X.XX=N/A

ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

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2-5 Gain data

Antenna gain is marked [dBi] and is based on STANDARD HORN antenna. The data shows Average-Gain.

Frequency (MHz)	Peak Gain (dBi)	Average Gain (dB)	Efficiency (%)
2400	2.74	-2.14	61.14
2410	2.79	-2.04	62.54
2420	2.86	-1.98	63.32
2430	2.91	-1.88	64.93
2440	2.96	-1.84	65.47
2450	2.92	-1.91	64.36
2460	2.92	-1.92	64.20
2470	2.84	-1.98	63.34
2480	2.75	-2.03	62.59
2490	2.81	-2.05	62.32
2500	2.78	-2.14	61.14

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

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NO.**

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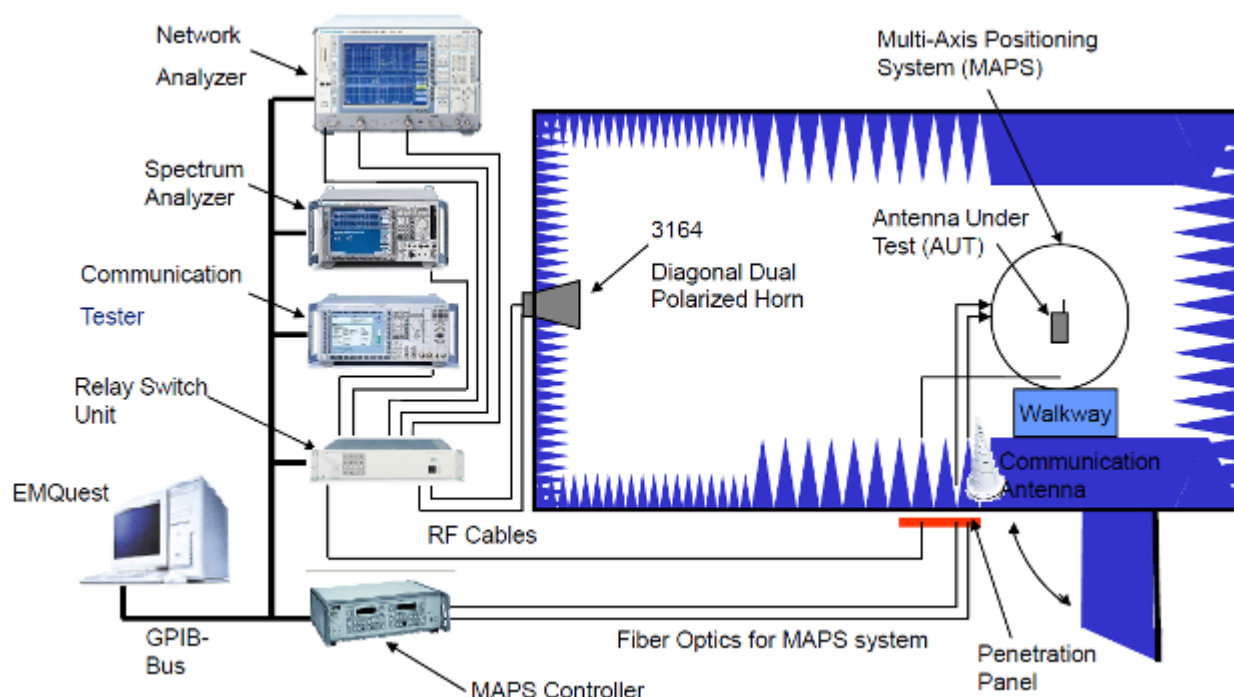
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2-6 Gain and Radiation Pattern

2-6.1 Measure method

1. Using a 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

2-6.2 Chamber definition



1. An anechoic chamber (10mx3mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 50cmx50cmx50cm at the center of rotator
3. The distance between DUT and standard antenna is 9.14m
4. Two measurement antennas is 3164-06 (300MHz - 6GHz) and 3164-05 (2 - 18GHz)

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



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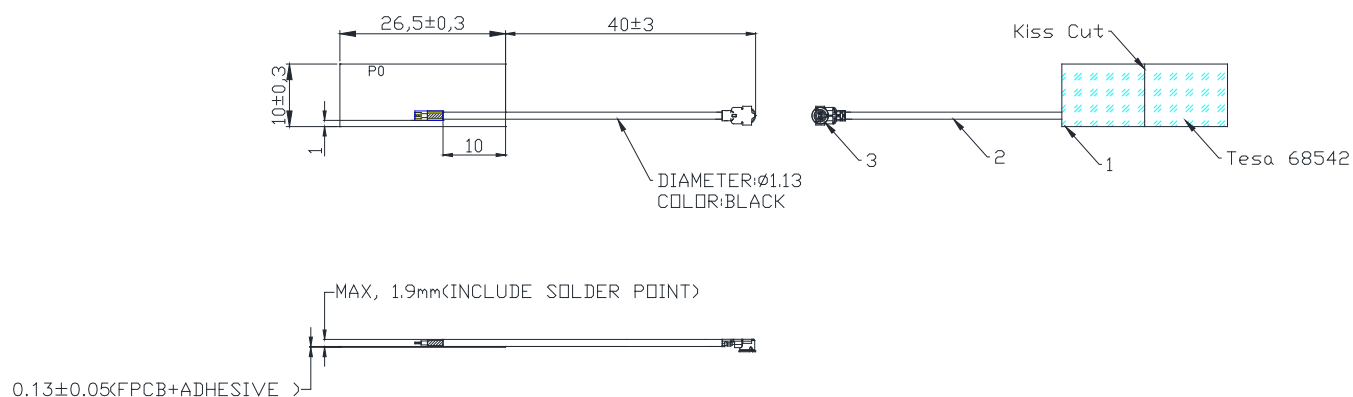
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NO.

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3. Mechanical Specification :

3-1. Mechanical Configuration :



Drawing P0

The appearance of the antenna is according to drawing Figure 3-1-1.

ITEM	DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY	UNIT
1	FPCB	26.5*10*0.13mm	1	PCS
2	Cable	RF Cable1.13 (Black)	1	PCS
3	Connector	I-PEX MHF I-PEX Equivalent(compatible)	1	PCS

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

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