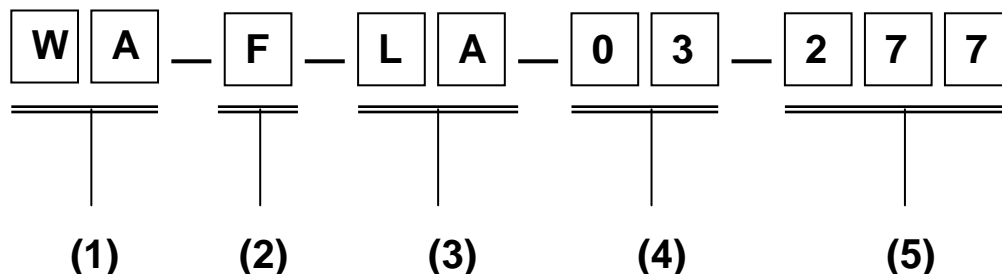


Embedded Single-Band Antenna for WA-F-LA-03-277

1. Explanation of part number :



(1) Product type : Wireless Antenna

(2) Material : FPCB

(3) Frequency : 2400~2500 MHz

(4) Coaxial Cable Type : Gray

(5) Suffix : 277

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:涂正憲

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-03-277

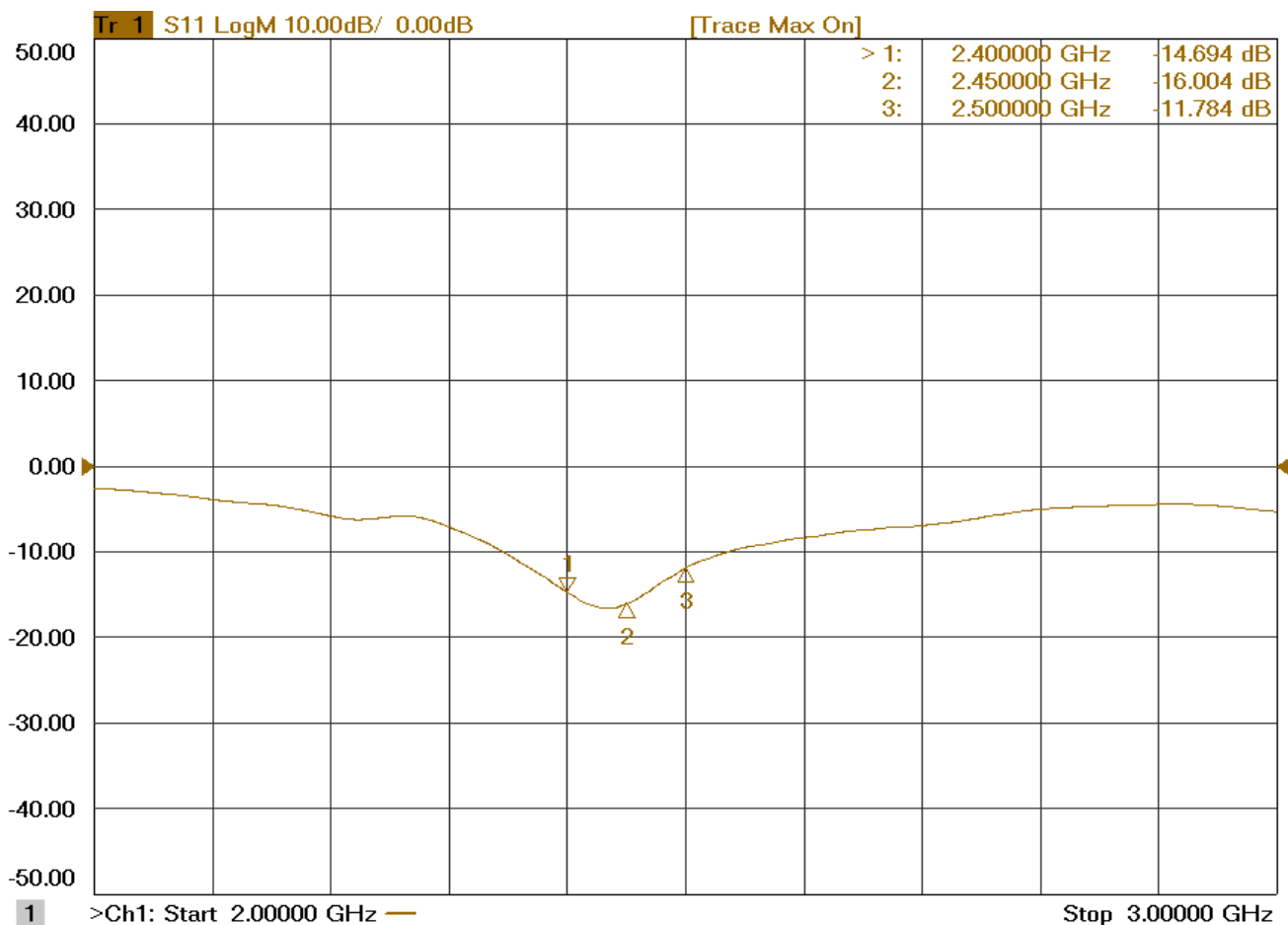
DOCUMENT
NO.

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SPEC REV.
P0

2-4. VSWR :

Frequency (Unit MHz)	2400	2450	2500
dB	-14.6	-16.0	-11.7



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

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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)	Efficiency (dB)	Efficiency (%)
2400	3.67	-1.74	66.92
2410	3.82	-1.70	67.59
2420	3.84	-1.70	67.37
2430	3.78	-1.79	66.28
2440	3.83	-1.64	68.49
2450	4.09	-1.63	68.78
2460	3.94	-1.71	67.46
2470	3.72	-1.80	66.00
2480	3.83	-1.69	67.82
2490	3.79	-1.75	66.88
2500	3.74	-1.82	65.78

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:涂正憲

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WA-F-LA-03-277

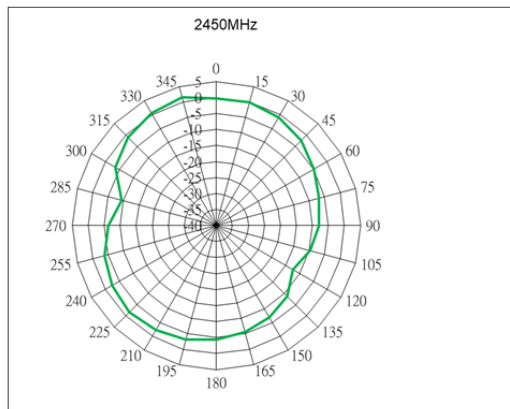
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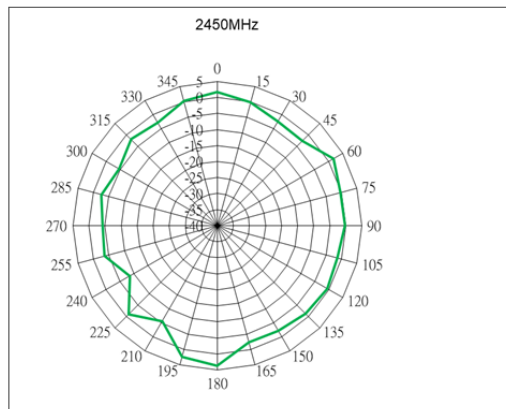
SPEC REV.
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2.6 Antenna 2D Radiation Pattern

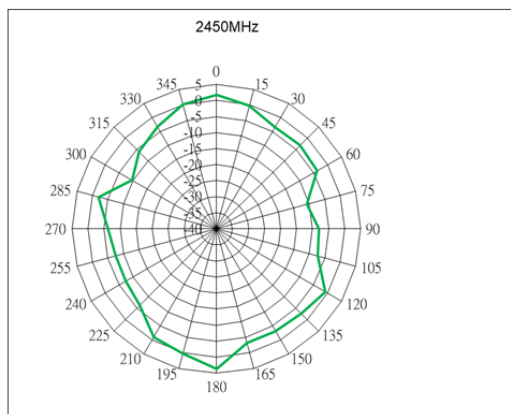
XY-plane



ZX-plane



ZY-plane



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:涂正憲

CHECKED BY:鄭榮謀

DESIGNED BY:洪賢修

APPROVED BY:謝立庭

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ENS000151830

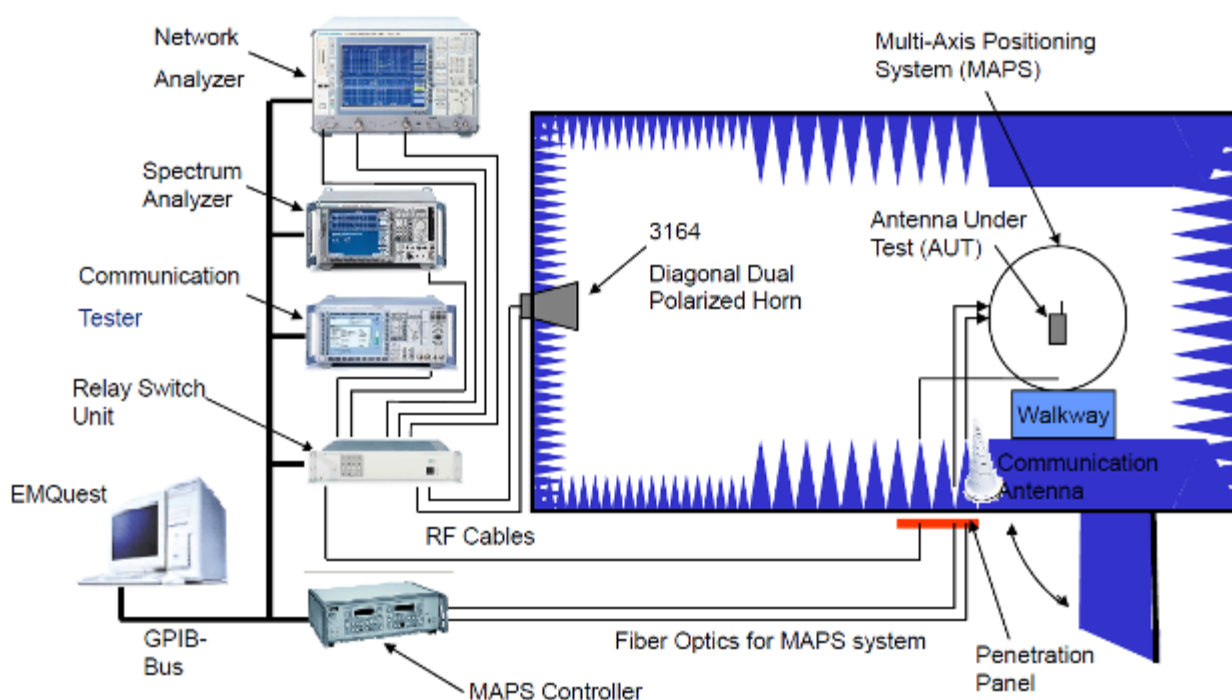
SPEC REV.
 P0

2-7 Gain and Radiation Pattern

2-7.1 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

2-7.2 Chamber definition



1. An anechoic chamber (10mx3mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite 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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:涂正憲

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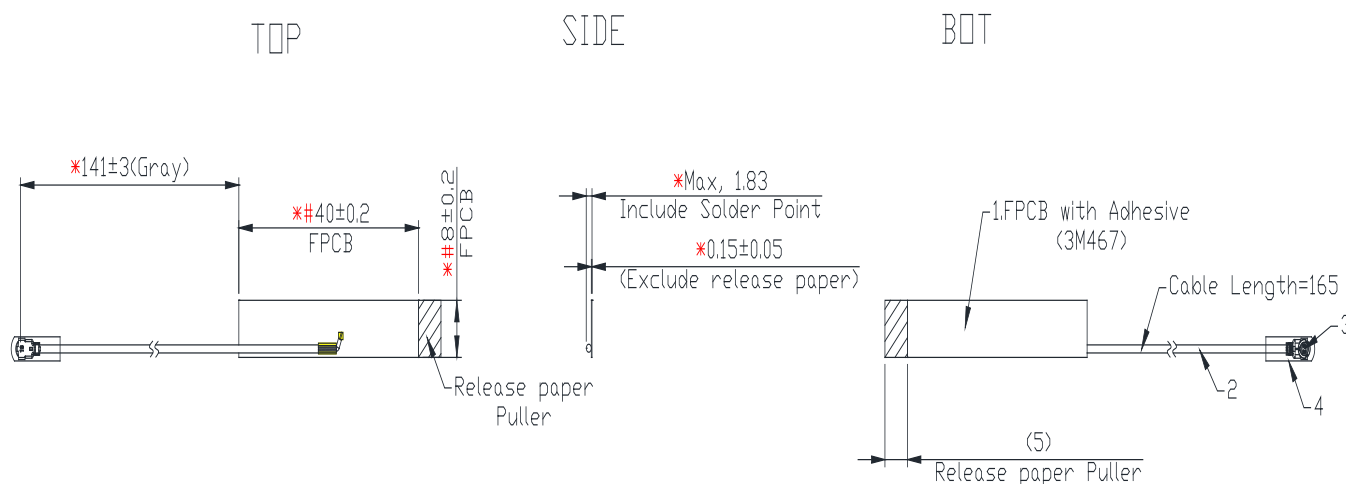
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NO.

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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	T=0.15mm,40*8mm	1	PCS
2	Cable	RF Cable1.13 (Gray)	1	PCS
3	Connector	I-PEX MHF I-PEX Equivalent(compatible)	1	PCS
4	Shrink Tube	OD3.0*20mm	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.

SCALE : N/A

UNIT : mm

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