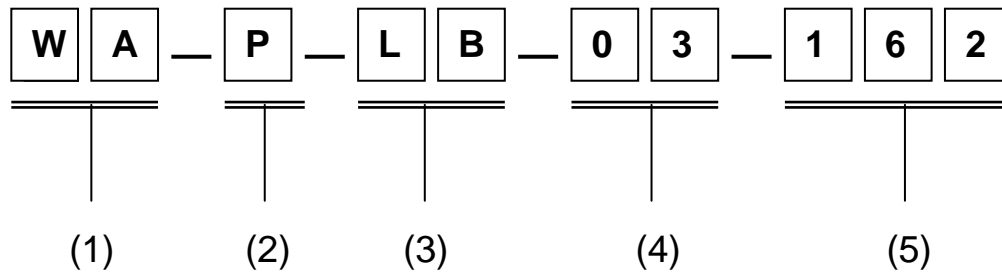


Embedded Dual Band Wi-Fi Antenna for WA-P-LB-03-162

1. Explanation of part number :



- (1) Product Type : Wireless Antenna
- (2) Material : PCB
- (3) Frequency : 2400~2500 / 5150~5850 MHz
- (4) Coaxial Cable Type : Gray Cable
- (5) Suffix : 162

2. Electrical Specification :

Those specifications were specially defined for **SD1 WiFi 1** model **Wi-Fi Antenna**, and all characteristics were measured under the model's handset testing jig.

2-1. 2400-2500MHz :

Characteristics		Specifications	Unit
Outline Dimension		18x18x0.8	mm
Center Frequency		2450	MHz
VSWR		2 max.	
Polarization		Linear Polarization	
Impedance		50	Ω
Gain	Peak	2.47	dBi
	Efficiency	61.16	%

2-2. 5150-5850MHz :

Characteristics		Specifications	Unit
Center Frequency		5500	MHz
VSWR		2 max.	
Polarization		Linear Polarization	
Impedance		50	Ω
Gain	Peak	4.31	dBi
	Efficiency	61.67	%

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



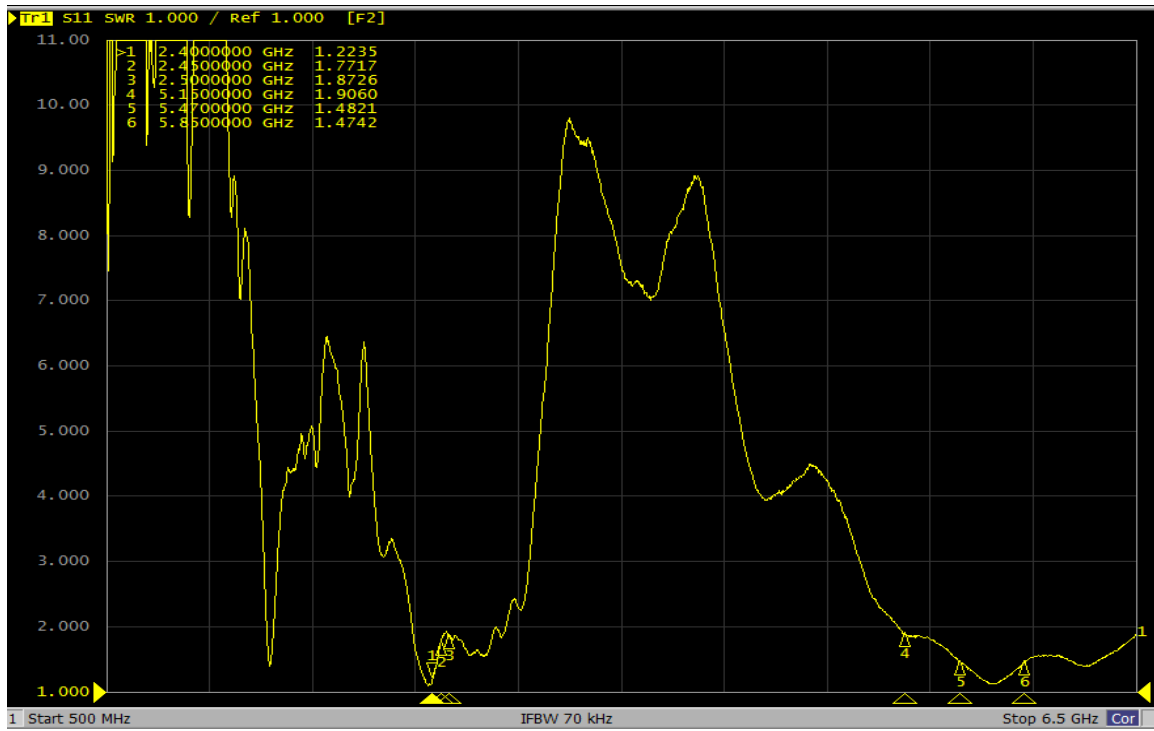
INPAQ TECHNOLOGY CO., LTD.


SCALE : N/A UNIT : mm
 DRAWN BY:黃建棠 CHECKED BY:鄭榮謀
 DESIGNED BY:許嘉晉 APPROVED BY:謝立庭

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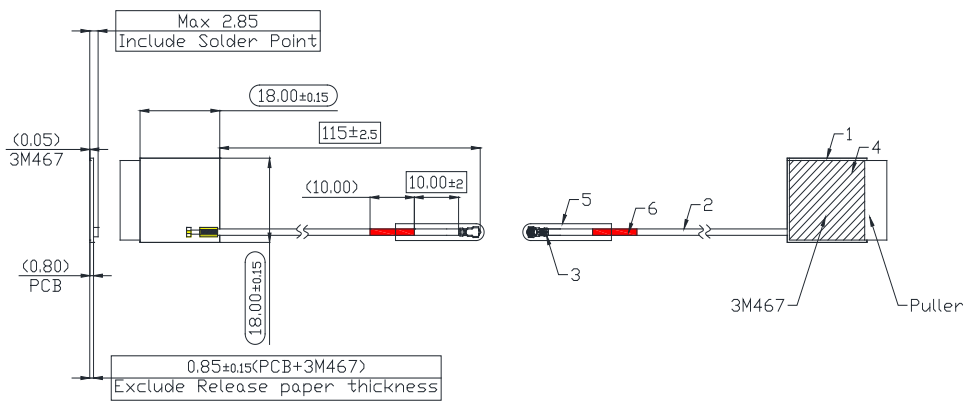
2-3. Return loss :



UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.	
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ANGLES=N/A		HOLEDIA=N/A		
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DESIGNED BY:許嘉晉	APPROVED BY:謝立庭			
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3. Antenna Drawing :

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



NOTE:

- 外觀標準:需完整無破損，不可有變形、髒污、毛邊、翹曲、裂縫、褶疊等情形。
Appearance standard : They must be complete.
It means those must not have the deformations, dirt, burrs, warps, cracks, folds, etc.
- 工程圖上“□”號為重點尺寸標註指示
Mark “□” are the key dimensions.
- 工程圖上“⊖”號為Cpk量測尺寸標註指示
Mark “⊖” are CPK dimensions.
- QC&FQC 只需量測重點尺寸&CPK
CPK&KEY dimensions for □QC&FQC.

Drawing Rev.P0

Figure 3-1-1.

ITEM	DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY	UNIT
1	PCB	18x18x0.8mm	1	PCS
2	Cable	RF Cable1.37,LLS,Gray	1	PCS
3	Connector	I-PEX MHF 4-L I-PEX Equivalent(compatible)	1	PCS
4	Adhesive	17x17x0.05,3M467	1	PCS
5	Tube	O.D.1.5x20 mm	1	PCS
6	Heat-Shrink Tube	O.D.1.5x10 mm , Red	1	PCS

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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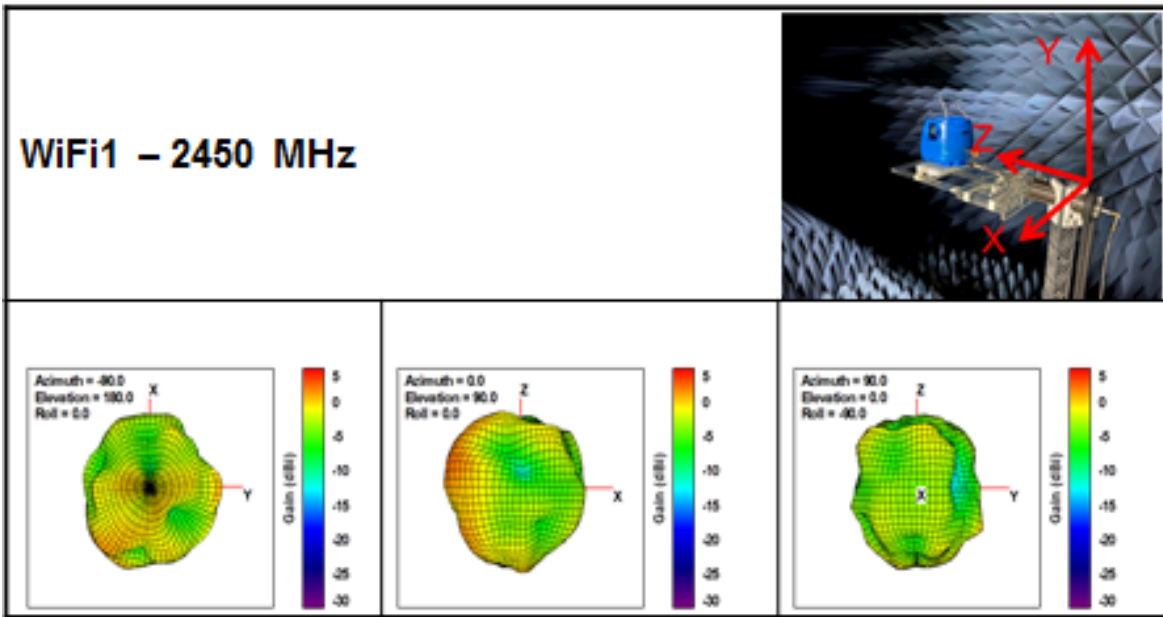
DOCUMENT NO.

ENS000143690

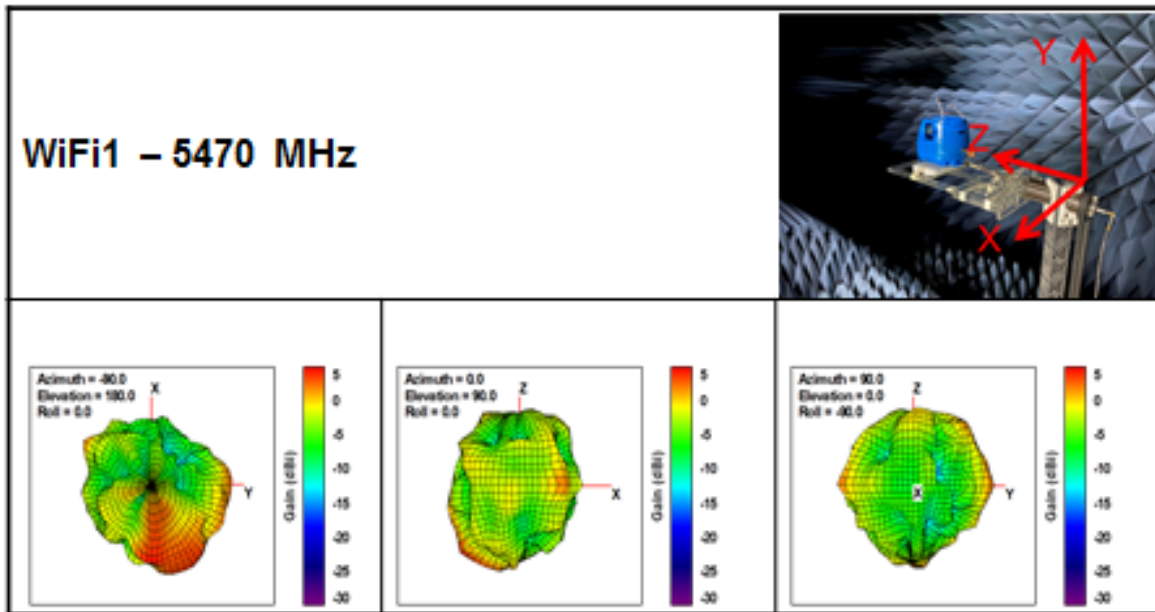
SPEC REV.
 P1

4. Radiation Pattern :

4-1. 2400-2500MHz :



4-2. 5150-5850MHz :



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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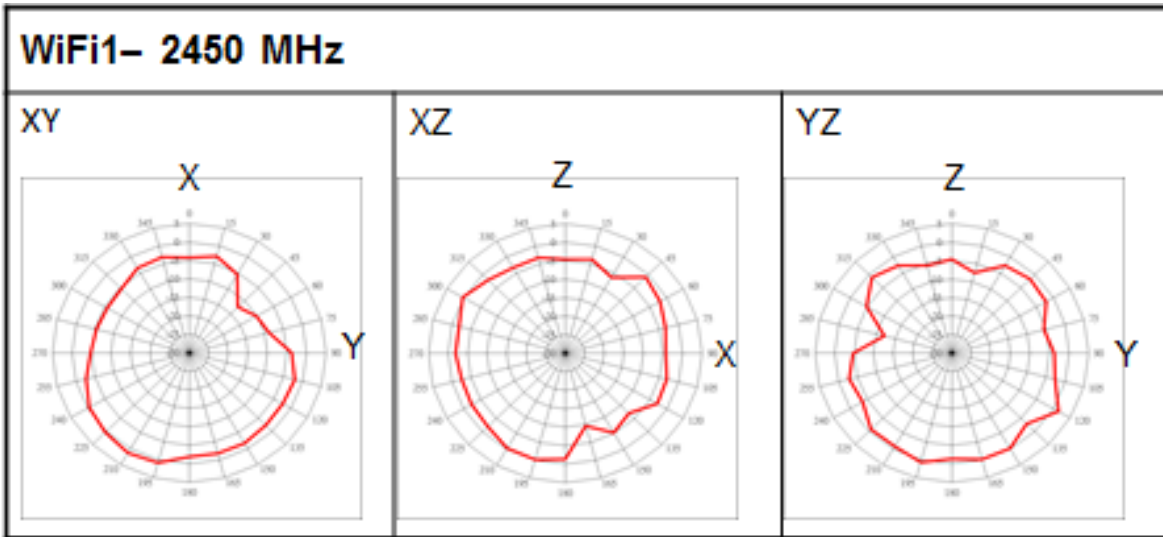
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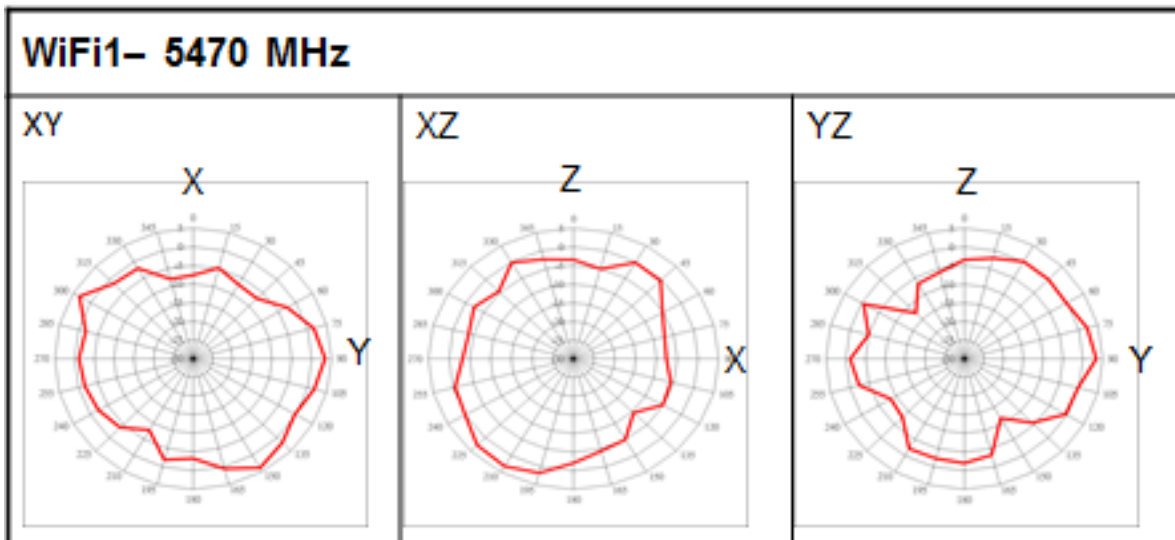
SPEC REV.	P1
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5. 2D Radiation Pattern :

5-1. 2400-2500MHz :



5-2. 5150-5850MHz :



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:許嘉晉

APPROVED BY:謝立庭

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DOCUMENT NO.

ENS000143690

SPEC REV.
P1

6. Efficiency Table :

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain / dB
2400	-2.01	62.98	2.29
2450	-1.79	66.24	2.47
2500	-2.14	61.16	2.36
5150	-2.1	61.67	3.08
5470	-2.03	62.64	3.68
5850	-2.06	62.29	4.31

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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