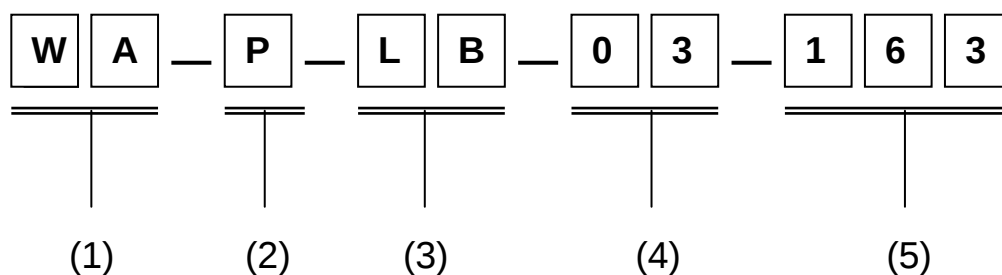


Embedded Dual Band Wi-Fi Antenna for WA-P-LB-03-163

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 : 163

2. Electrical Specification :

Those specifications were specially defined for **SD1 WiFi 2** 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	2.43	dBi
	Efficiency	60.56	%

2-2. 5150-5850MHz :

Characteristics		Specifications	Unit
Center Frequency		5500	MHz
VSWR		2 max.	
Polarization		Linear Polarization	
Impedance		50	Ω
Gain	Peak	4.41	dBi
	Efficiency	61.86	%

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: 黃建榮

CHECKED BY: 鄭榮謀

DESIGNED BY: 許嘉晉

APPROVED BY: 謝立庭

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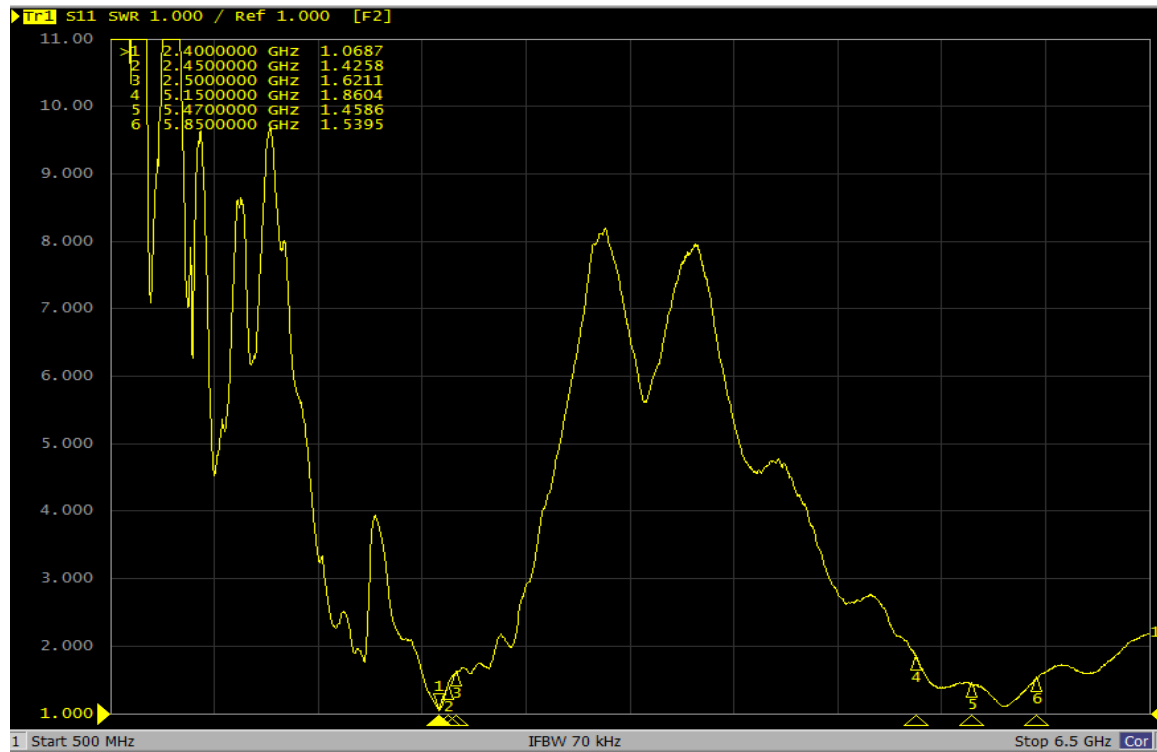
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2-3. Return loss :



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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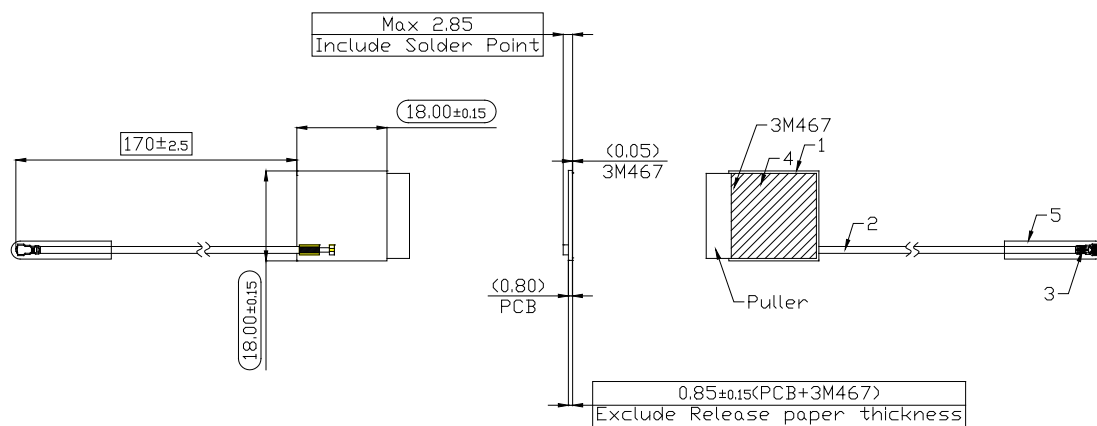
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3. Antenna Drawing :

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, burns, 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.

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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

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ANGLES = N/A HOLEDIA = N/A



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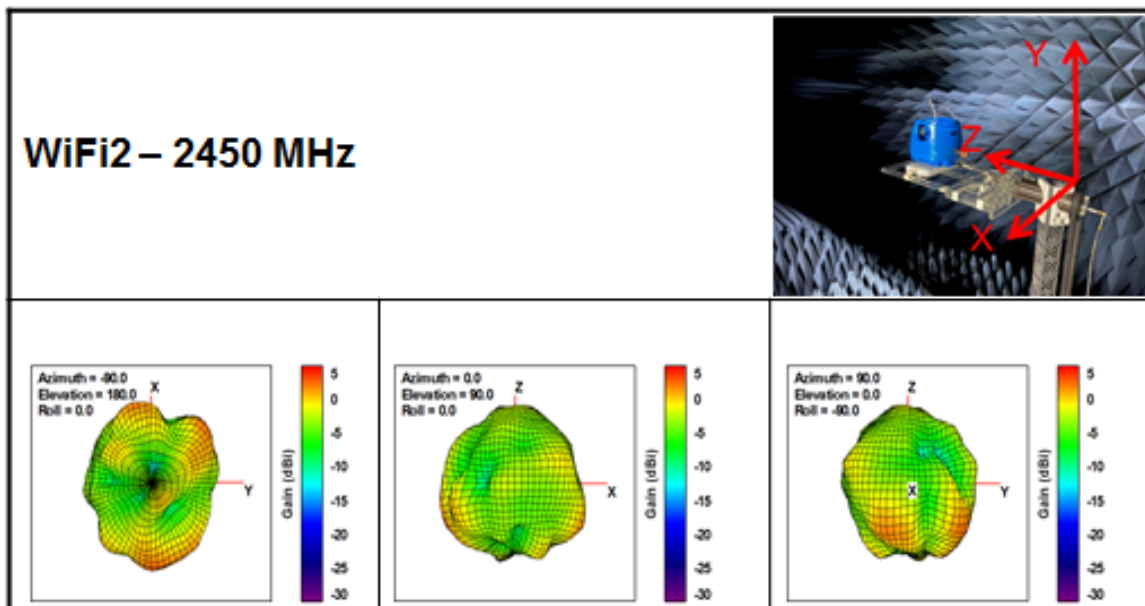
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4. Radiation Pattern :

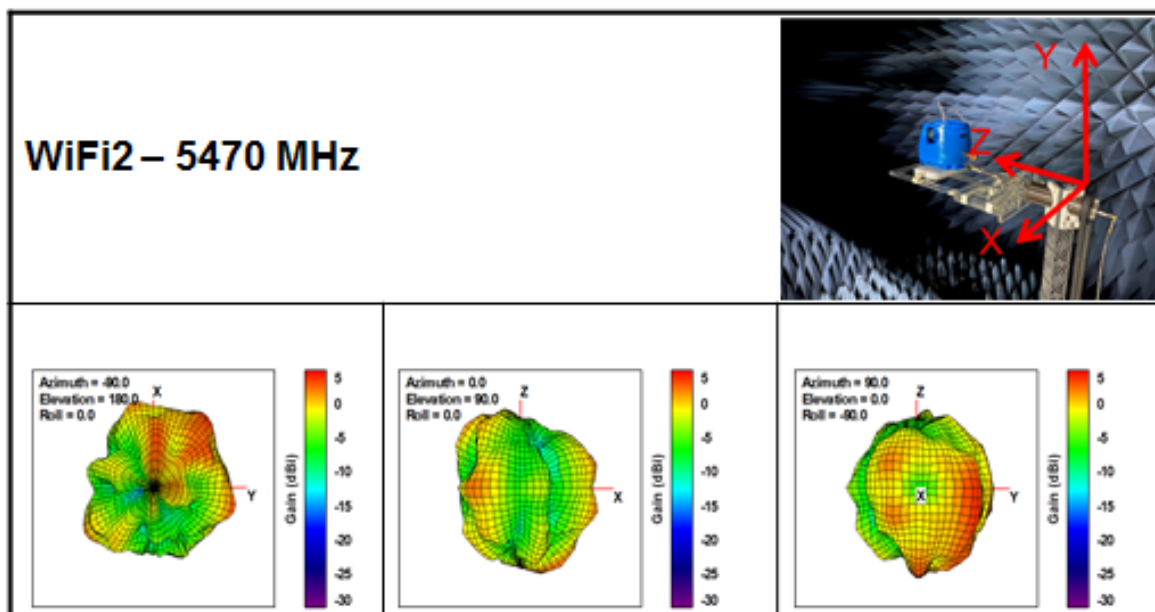
4-1. 2400-2500MHz :

WiFi2 – 2450 MHz



4-2. 5150-5850MHz :

WiFi2 – 5470 MHz



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



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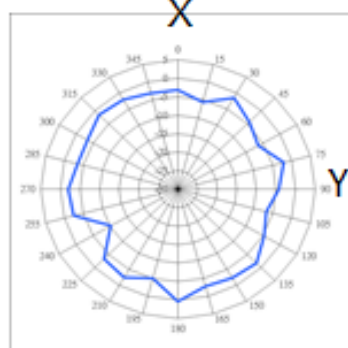
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5. 2D Radiation Pattern :

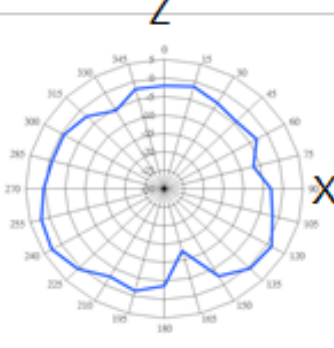
5-1. 2400-2500MHz :

WiFi2- 2450 MHz

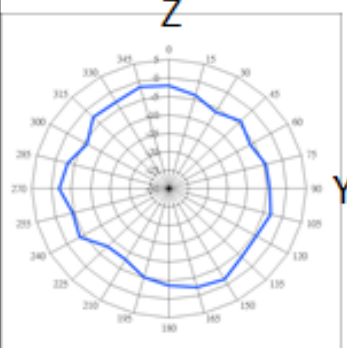
XY



XZ



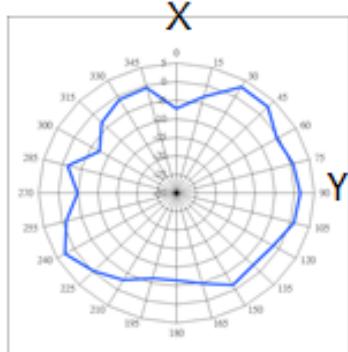
YZ



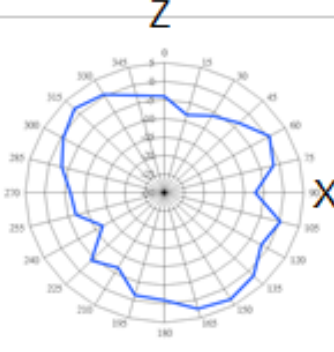
5-2. 5150-5850MHz :

WiFi2- 5470 MHz

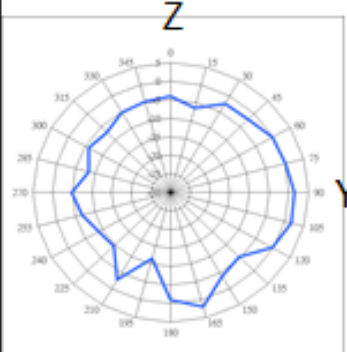
XY



XZ



YZ



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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6. Efficiency Table :

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain / dB
2400	-2.01	62.93	2.2
2450	-1.81	65.95	2.43
2500	-2.18	60.56	2.16
5150	-2.09	61.86	3.16
5470	-1.97	63.5	3.91
5850	-2.05	62.34	4.41

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