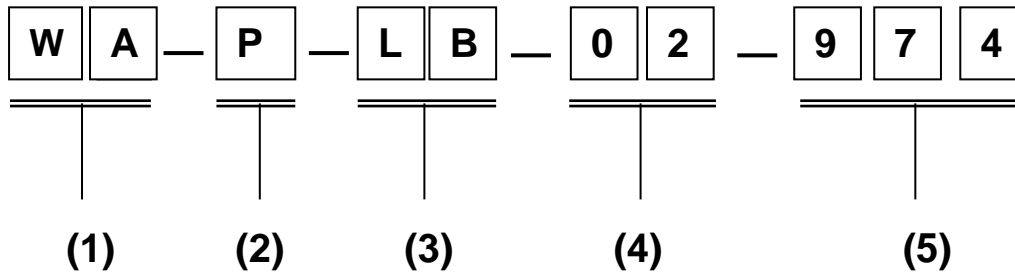


Embedded Dual-Band Antenna for WA-P-LB-02-974

1. Explanation of part number :



- (1) Product Type : Wireless Antenna
- (2) Material : PCB
- (3) Frequency/Band code : 2400-2500MHz / 5150-5850MHz
- (4) Coaxial Cable Type : Black
- (5) Suffix : 974

2. Electrical Specification :

2-1. Frequency Band :


Band	Frequency
WIFI	2400-2500MHz / 5150-5850MHz

2-2. Impedance :

50 ohm nominal

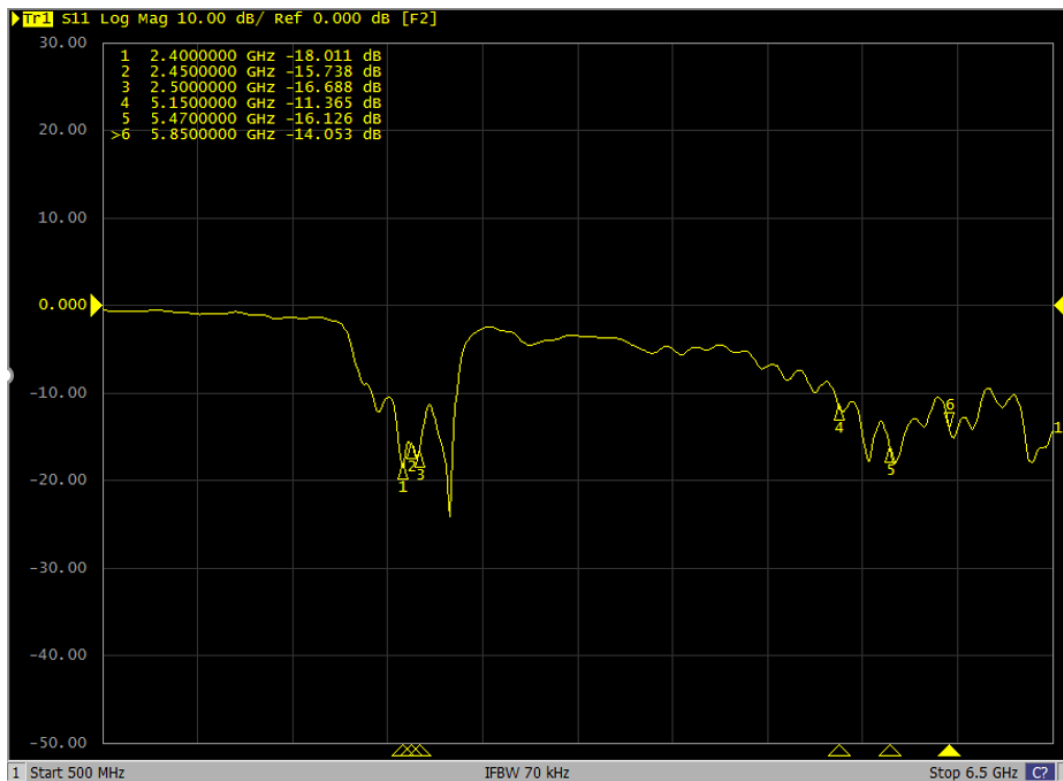
2-3. Matching circuit :

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	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN BY : 黃建棠	CHECKED BY : 鄭榮謀			
DESIGNED BY : 陳彥吉	APPROVED BY : 謝立庭			
TITLE : Embedded Dual-Band Antenna for WA-P-LB-02-974		DOCUMENT NO.	ENS000177480	SPEC REV. P4

2-4. List :

Antenna Physical Type:	PCB Antenna	
Antenna Radiation Type:	PIFA	
Connector Type	I-PEX Connector for 1.13 cable	
Cable Type	OD 1.13 RF Cable	
Impedance	50Ω	
Polarization	Linear	
Frequency	2.40~2.50 GHz	
	5.15~5.85 GHz	
Return Loss	2.40~2.50 GHz	-10dB(max)
	5.15~5.85 GHz	
Peak gain(dBi)	2.40~2.50 GHz	3.68 dBi(Max)
	5150~5250 MHz	4.36 dBi(Max)
	5250~5350 MHz	4.36 dBi(Max)
	5470~5725 MHz	4.40 dBi(Max)
	5725~5850 MHz	4.32 dBi(Max)
Cable length	150 mm, Black	

2-5. 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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SCALE : N/A

UNIT : mm

DRAWN BY : 黃建棠

CHECKED BY : 鄭榮謀

DESIGNED BY : 陳彥吉

APPROVED BY : 謝立庭

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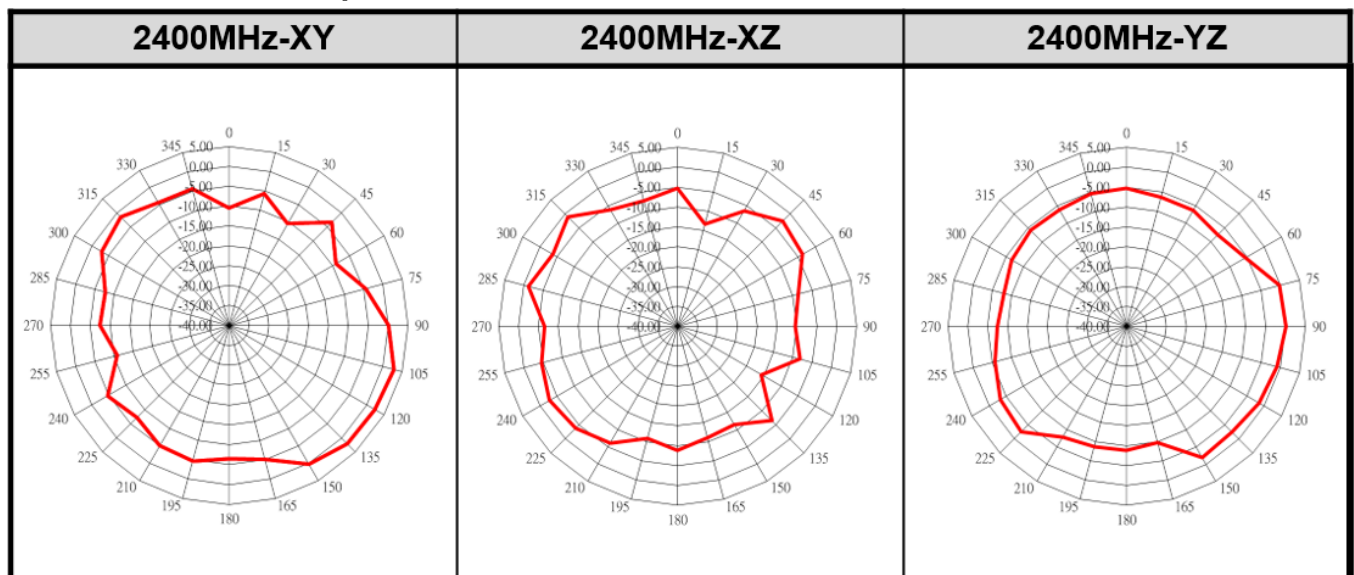
DOCUMENT
 NO.

ENS000177480

SPEC REV.
P4

2-6. Peak gain and Efficiency :

Frequency (MHz)	Peak Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.46	-3.81	41.59
2450	3.68	-3.90	40.74
2500	3.47	-3.86	41.11
5150	4.25	-3.75	42.17
5250	4.36	-3.82	41.50
5350	4.29	-3.70	42.66
5470	4.40	-3.63	43.35
5600	4.36	-3.65	43.15
5725	4.27	-3.72	42.46
5785	4.29	-3.83	41.40
5850	4.32	-3.80	41.69

2-7. 2D Radiation pattern :


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 : 陳彥吉

APPROVED BY : 謝立庭

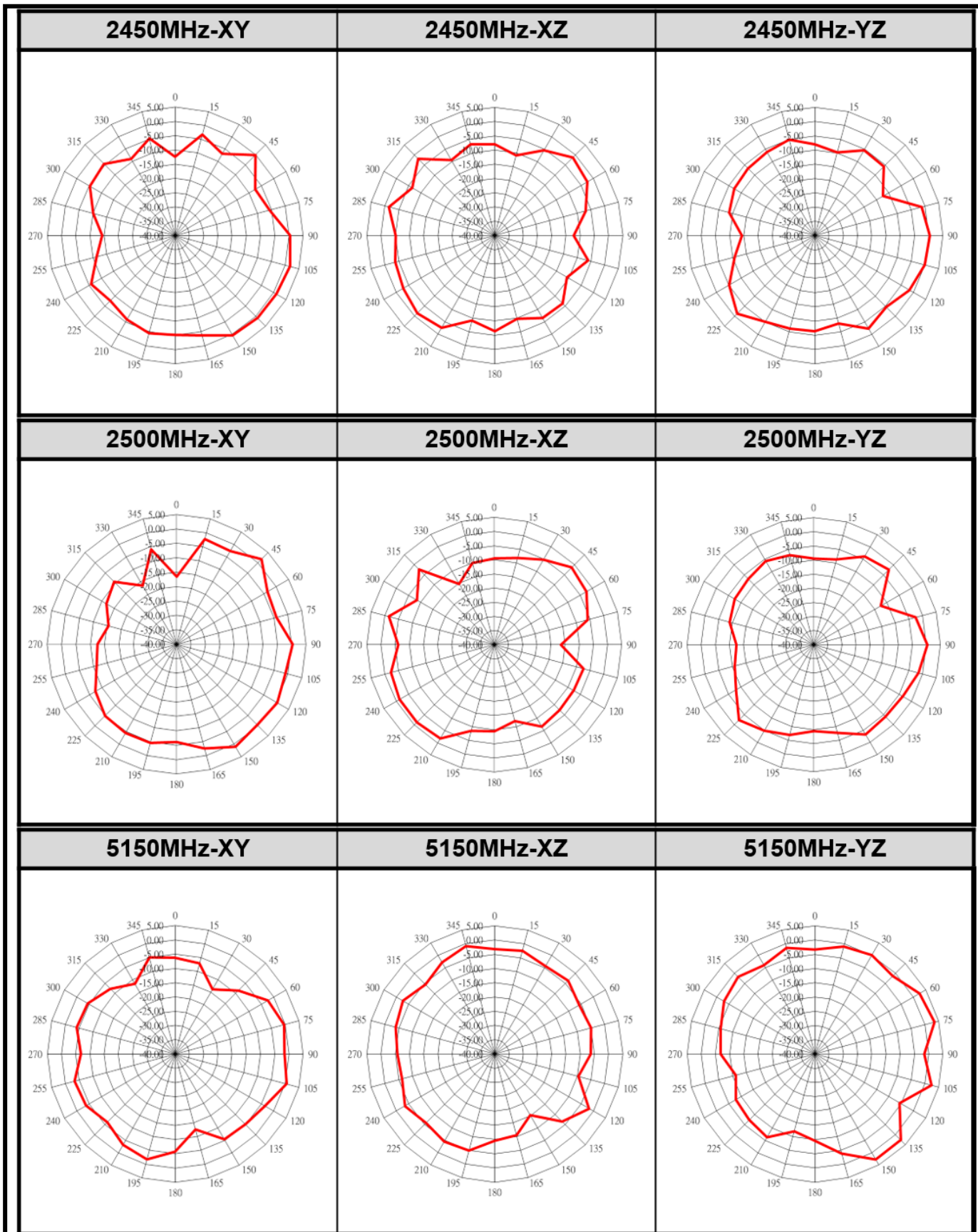
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DOCUMENT
 NO.

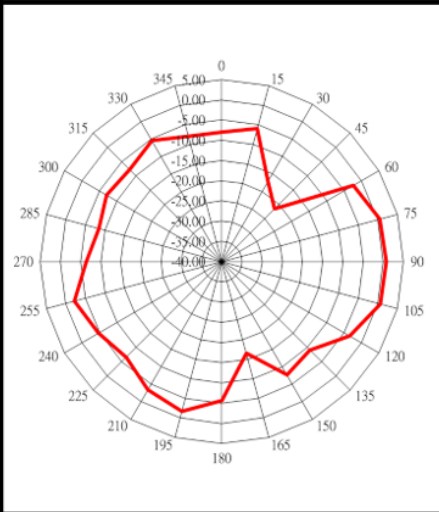
ENS000177480

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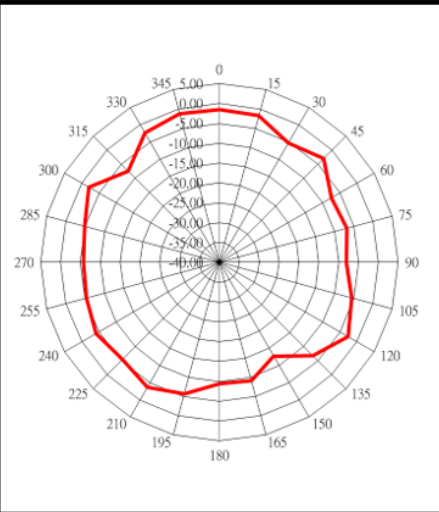


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ANGLES=N/A HOLEDIA=N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
SCALE : N/A	UNIT : mm			
DRAWN BY : 黃建棠	CHECKED BY : 鄭榮謀			
DESIGNED BY : 陳彥吉	APPROVED BY : 謝立庭	DOCUMENT NO. ENS000177480 SPEC REV. P4		
TITLE : Embedded Dual-Band Antenna for WA-P-LB-02-974				

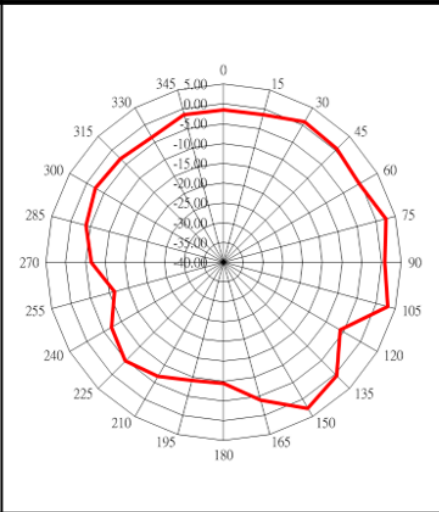
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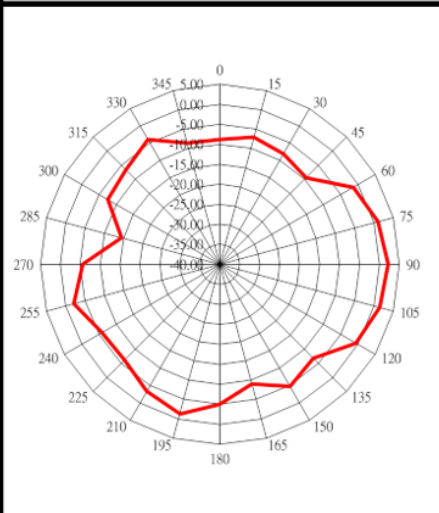
5250MHz-XZ



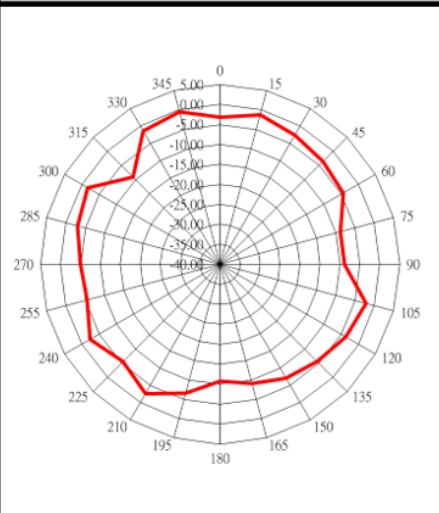
5250MHz-YZ



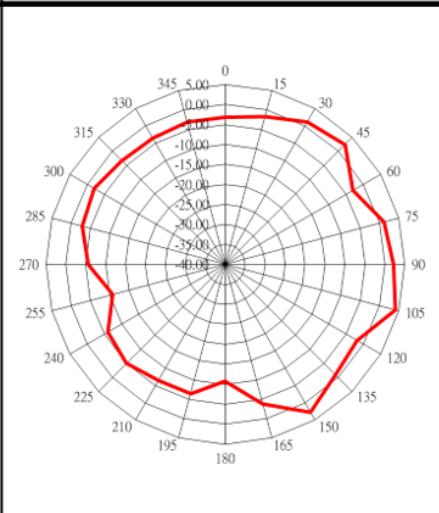
5350MHz-XY



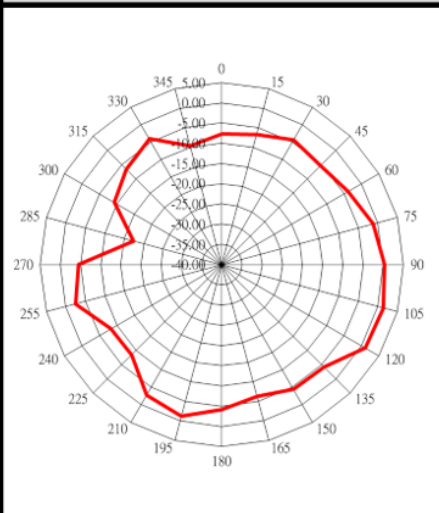
5350MHz-XZ



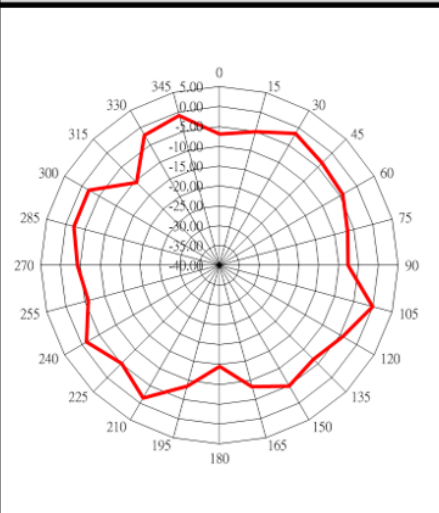
5350MHz-YZ



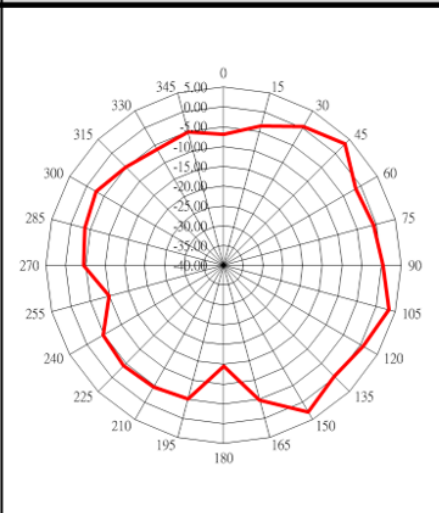
5470MHz-XY



5470MHz-XZ



5470MHz-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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SCALE : N/A UNIT : mm
 DRAWN BY : 黃建棠 CHECKED BY : 鄭榮謀
 DESIGNED BY : 陳彥吉 APPROVED BY : 謝立庭

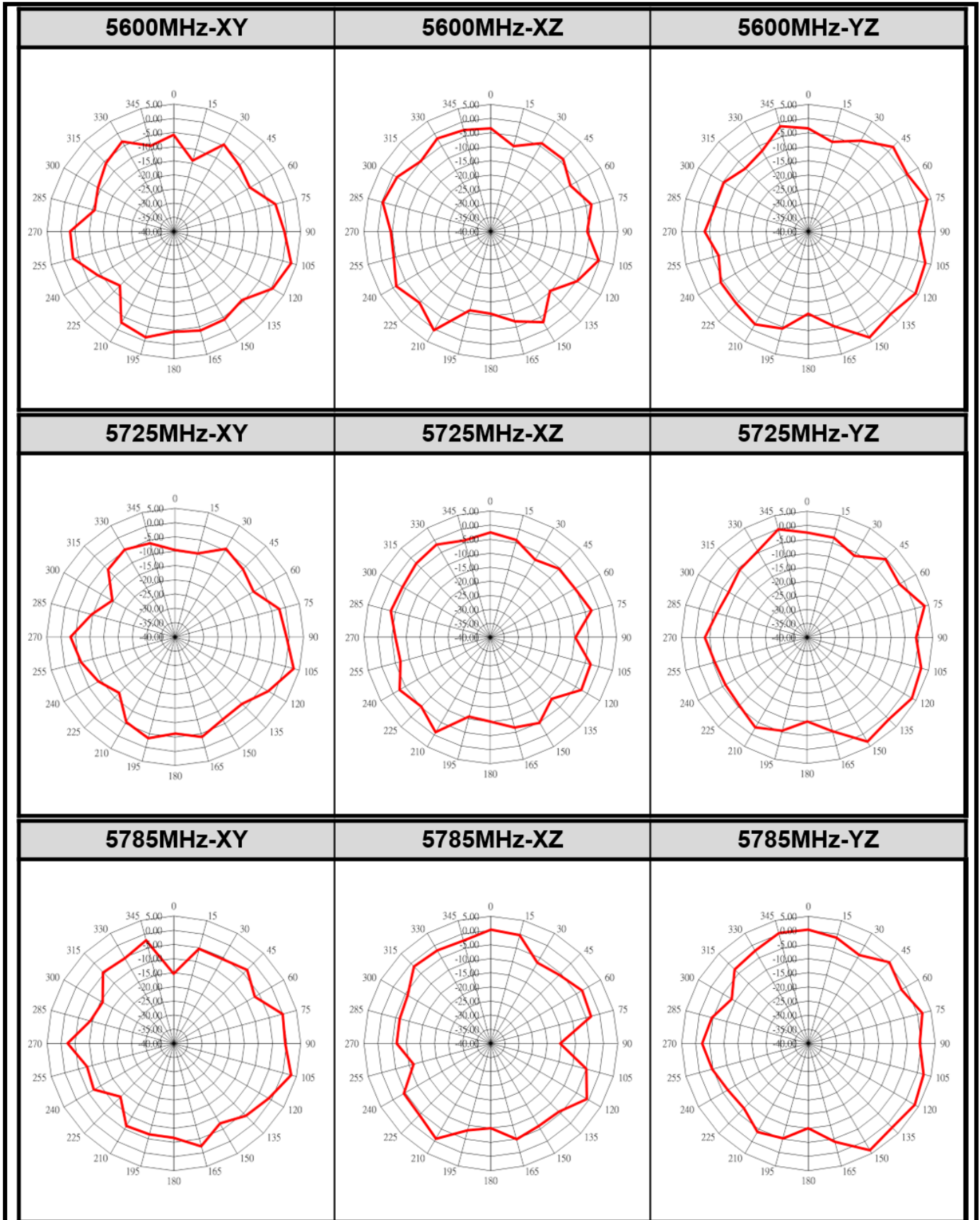
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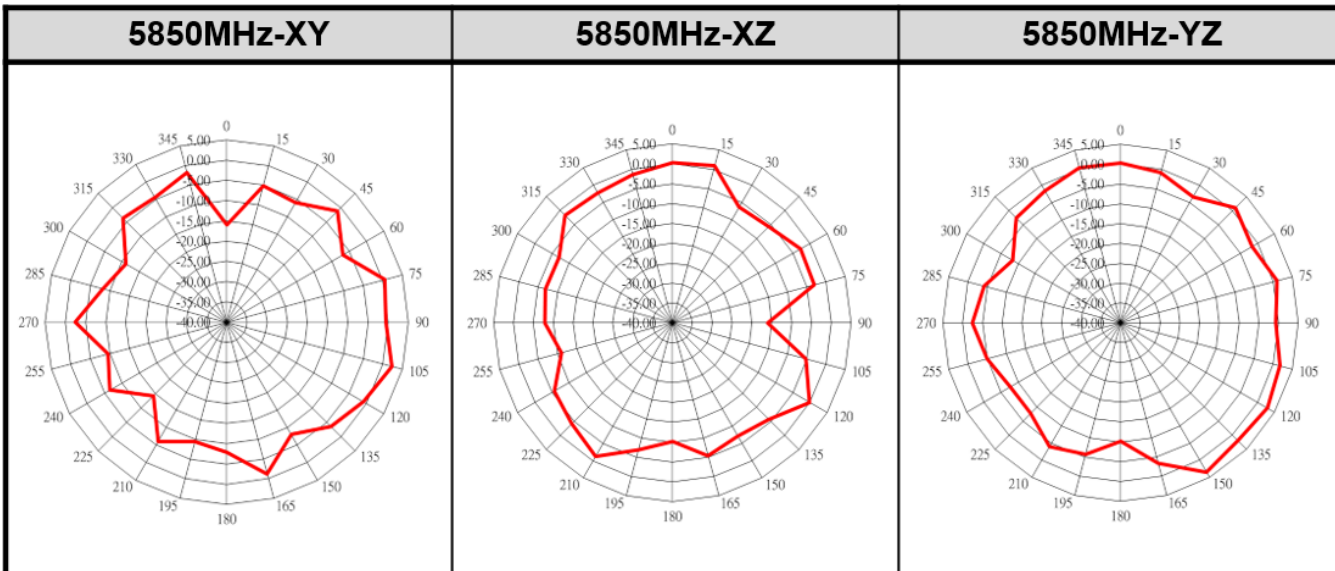
DOCUMENT NO.

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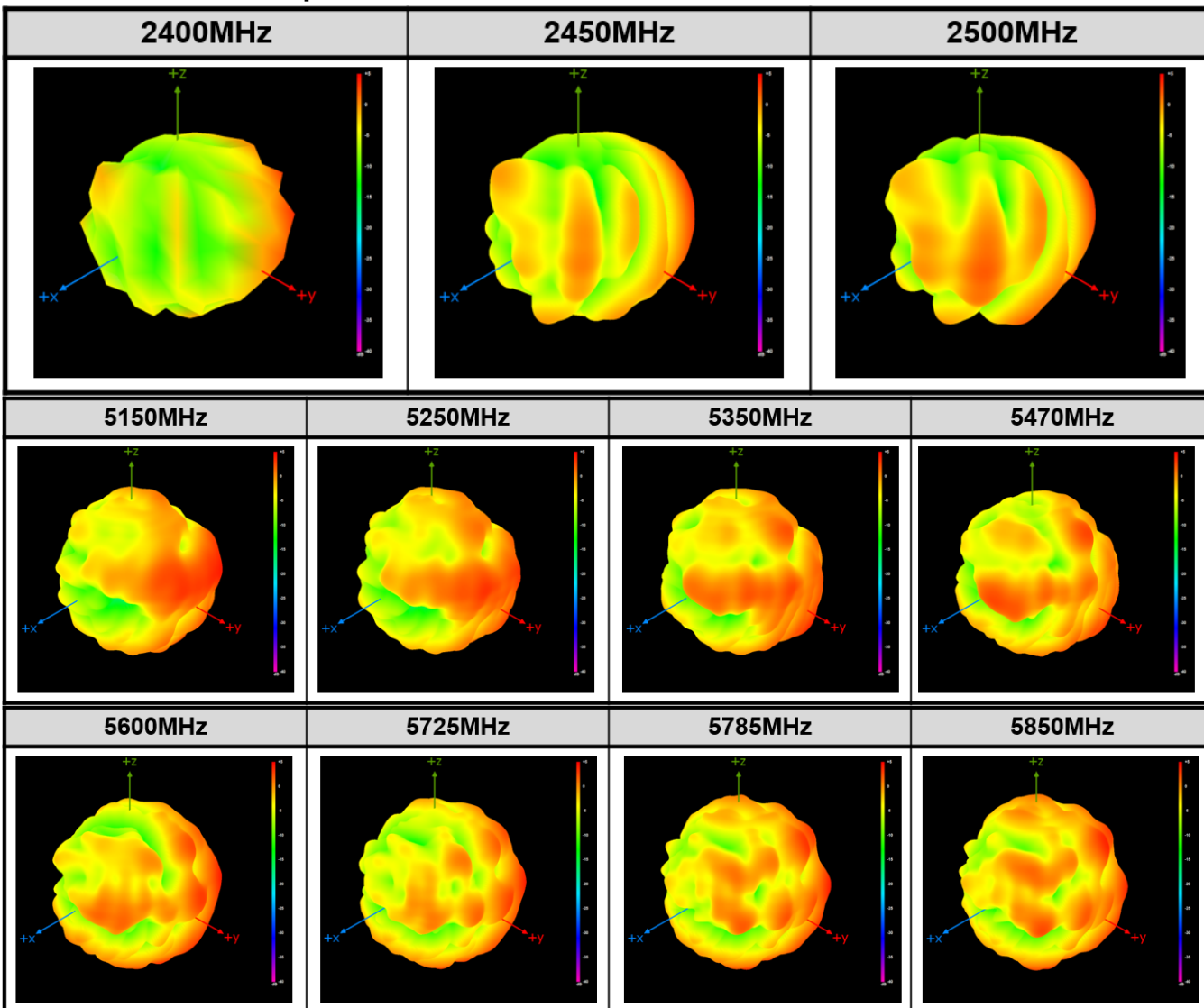
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ANGLES=N/A HOLEDIA=N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
SCALE : N/A	UNIT : mm			
DRAWN BY : 黃建棠	CHECKED BY : 鄭榮謀			
DESIGNED BY : 陳彥吉	APPROVED BY : 謝立庭			
TITLE : Embedded Dual-Band Antenna for WA-P-LB-02-974		DOCUMENT NO.	ENS000177480	SPEC REV. P4



2-8. 3D Radiation pattern :



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 : 陳彥吉

APPROVED BY : 謝立庭

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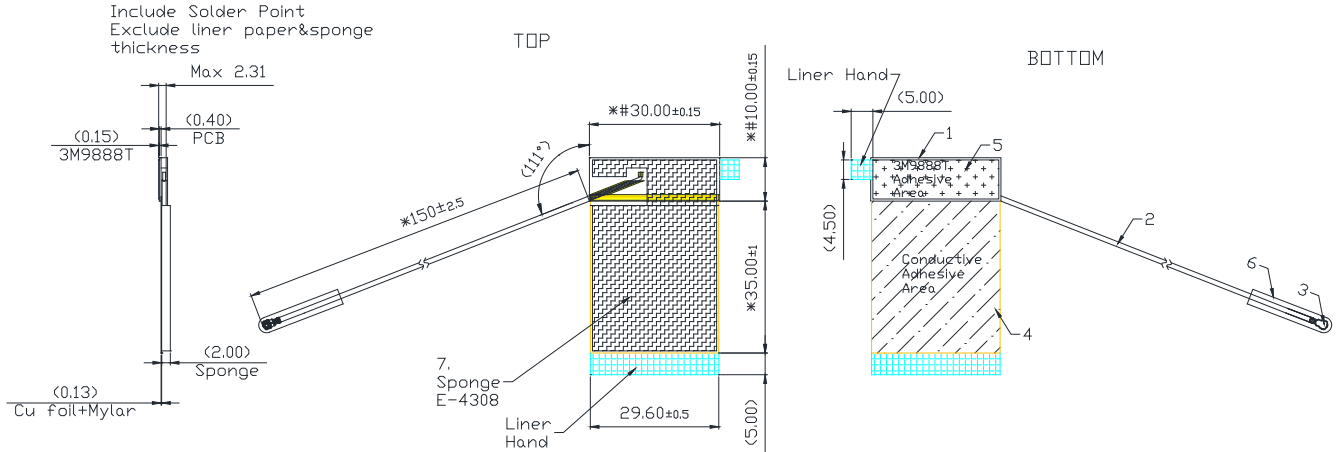
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3.Mechanical Specification :

3.1 Mechanical Configuration :

NOTE:

- 外觀標準：需完整無缺，不可有變形、變形、毛邊、爛出、裂紋、折疊等情形。
Appearance standard: They must be complete. It means those must not have the deformations, dirt, burrs, warps, cracks, folds, etc.
- 工程圖上“*”號為關鍵尺寸與公差。
Mark “*” are the key dimensions.
- 工程圖上“#”號為CPK尺寸與公差。
Mark “#” are CPK dimensions.
- IQC&DQC&FQC 共需檢核圖面尺寸及CPK
CPK&KEY dimensions for IQC&DQC&FQC.



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

ITEM	DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY	UNIT	SUPPLIER	UL NO
1	PCB	L30*W10*0.4Tmm	1	PCS	HA0234	E495648
2	Cable	Ø1.13,Normal,Black	1	PCS	HA0008	E318898
3	Connector	I-PEX MHF4-L I-PEX Equivalent(compatible)	1	PCS	HA0063	E213445
4	Cu_Foil+Mylar(transparent)	L29.6*W36*0.13Tmm	1	PCS	HA0026	N/A
5	Adhesive	3M9888T	1	PCS	HA0026	N/A
6	Tube/transparent	ID1.9x20mm	1	PCS	HA1018	N/A
7	Sponge with adhesive	E-4308	1	PCS	HA0026	N/A

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 : 陳彥吉

APPROVED BY : 謝立庭

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