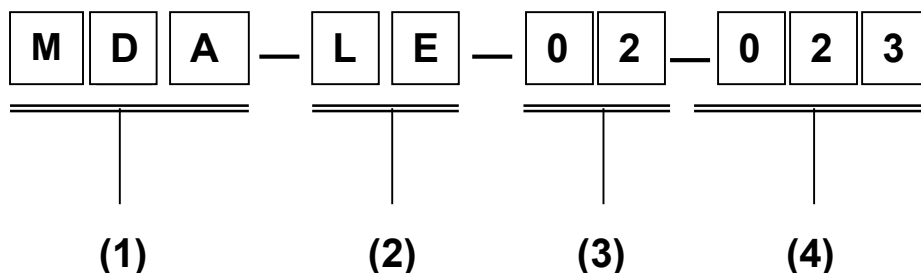


Embedded Multi-Band Antenna for MDA-LE-02-023

1. Explanation of part number :



- (1) Product type/Material : Wireless Antenna/Holder+LDS
 (2) Frequency/Band code : 2400~2500 & 5150~5895MHz & 5925~7125MHz
 (3) Coaxial Cable Type : Black Cable
 (4) Suffix : 023

2. Electrical Specification :

Ant. Part Number (main & MAIN parts)	Type	Highest Peak Gain with Cable Loss (dBi)	Cable loss (dB)	Connector Type	Cable length	Laptop/ Host Model
		2400~7125 MHz	2400~7125 MHz			
Main: INPAQ P/N: MDA-LE-02-023 ASUS P/N: 14008-05890100	PIFA	1.8@2.4G 3.5@5G 2.8@5.925~6.425GHz 3.1@6425~6525GHz 3.4@6.525~6.875GHz 3.9@6.875~7.125GHz	0.45@2.4G 0.7@5G 0.73@5.925~6.425GHz 0.75@6425~6525GHz 0.76@6.525~6.875GHz 0.79@6.875~7.125GHz	I-PEX MHF4-L	151mm	UM3406

Antenna Type	PIFA Antenna For WIFI 802.11a/b/g/n/ac/ax	
Connector Type	I-PEX MHF4-L Connector 20565-001R-13	
Cable Type	OD 1.13 LLS RF Cable	
Impedance	50Ω	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Frequency Range	WLAN 802.11a/b/g/n/ac/ax	2.4~2.5GHz & 5.15~7.125 GHz
VSWR	WLAN 802.11a/b/g/n/ac/ax	≤ 3.5
Operation Temperature	-10℃~+55℃	

Storage Temperature	-30℃~+75℃
Return Loss	≤ -6 dB
Max Power	1W

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

APPROVED BY:宋承翰

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TITLE : Embedded Multi-Band Antenna for
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6-5.3 Gain data and radiation pattern

Antenna gain is marked (dBi) and is based on **STANDARD HORN** antenna. The data shows Peak-Gain and Average-Gain.

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	3D Peak gain (dBi)
2400	26.4	-5.8	0.2
2412	28.4	-5.5	0.8
2437	31.4	-5.0	1.8
2462	30.2	-5.2	1.7
2500	27.0	-5.7	1.3
5150	59.0	-2.3	3.4
5250	54.7	-2.6	2.7
5350	49.9	-3.0	2.8
5470	59.2	-2.3	3.1
5600	68.1	-1.7	3.1
5725	55.2	-2.6	3.5
5780	55.0	-2.6	2.7
5850	52.0	-2.8	2.8
5895	61.0	-2.2	3.5
5925	52.6	-2.8	1.8
6125	66.2	-1.8	2.7
6425	61.8	-2.1	2.8
6525	72.3	-1.4	3.1
6725	74.0	-1.3	3.0
6875	67.1	-1.7	3.4
6925	76.2	-1.2	3.9
7125	46.6	-3.3	2.8

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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UNIT : mm

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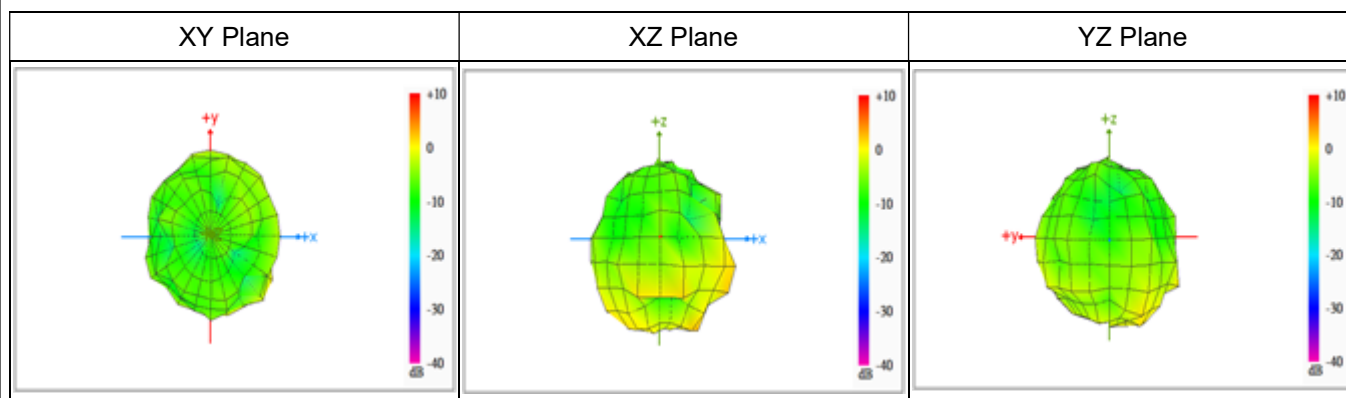
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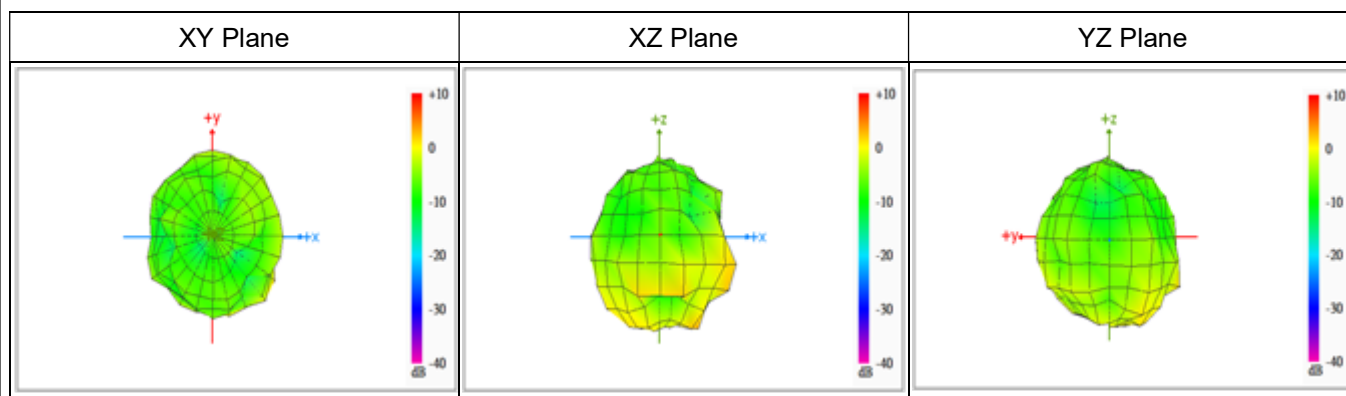
TITLE : Embedded Multi-Band Antenna for
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2400-2500MHz radiation characteristic**MAIN antenna: 2400 MHz**

Center Frequency	2400 MHz
Three-dimensional (dBi) peak	0.2

MAIN antenna: 2412 MHz

Center Frequency	2412 MHz
Three-dimensional (dBi) peak	0.8

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$

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UNIT : mm

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DESIGNED BY: 張建焜

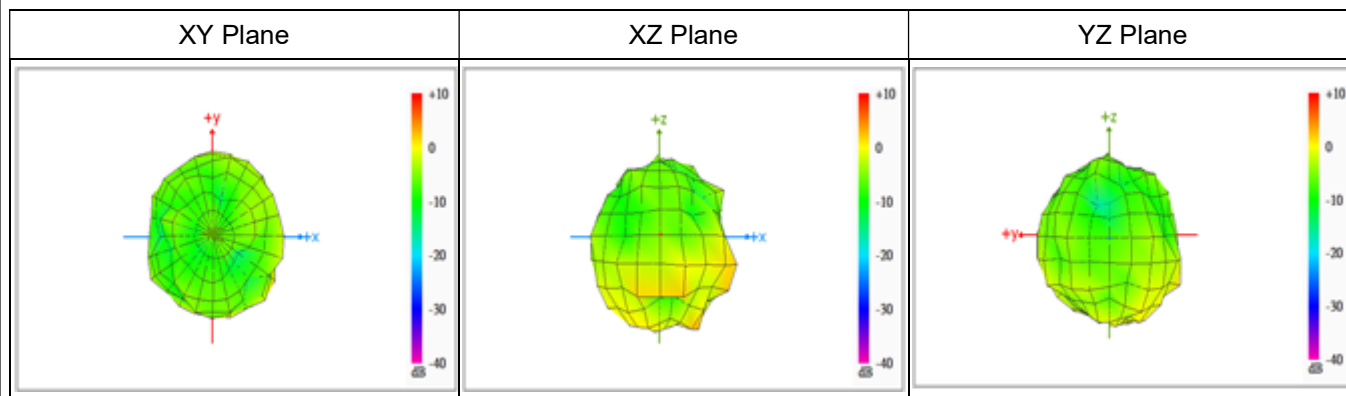
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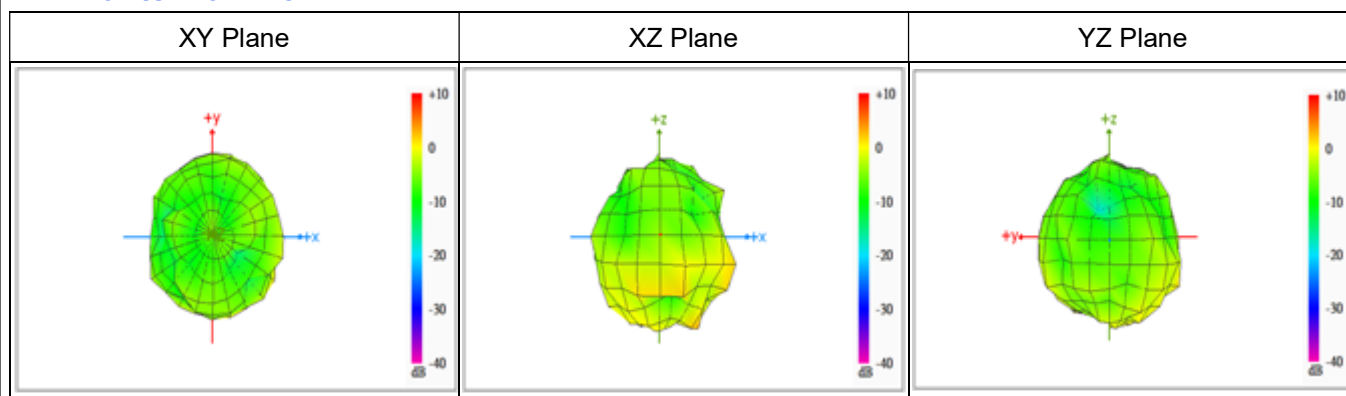
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 2437 MHz

Center Frequency	2437 MHz
Three-dimensional (dBi) peak	1.8

MAIN antenna: 2462 MHz

Center Frequency	2462 MHz
Three-dimensional (dBi) peak	1.7

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

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CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

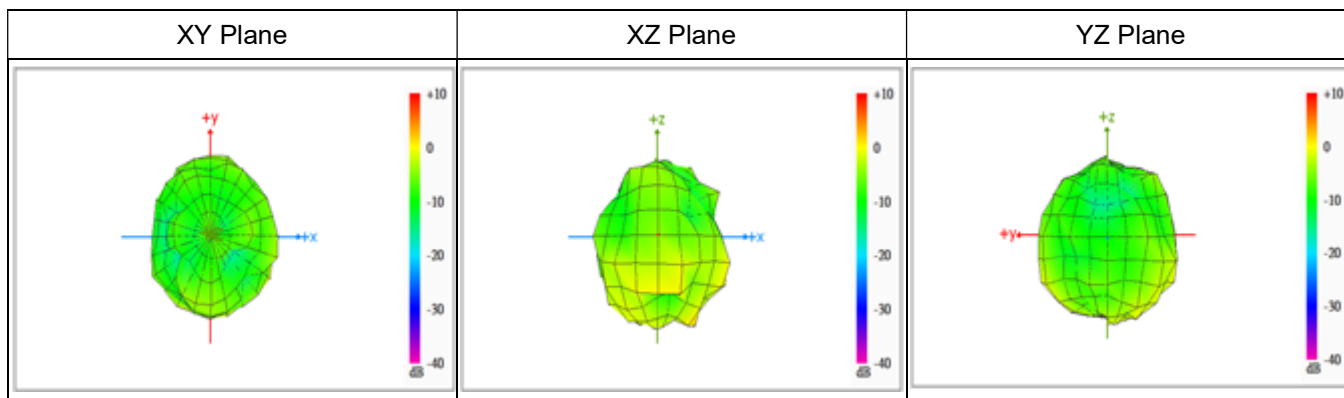
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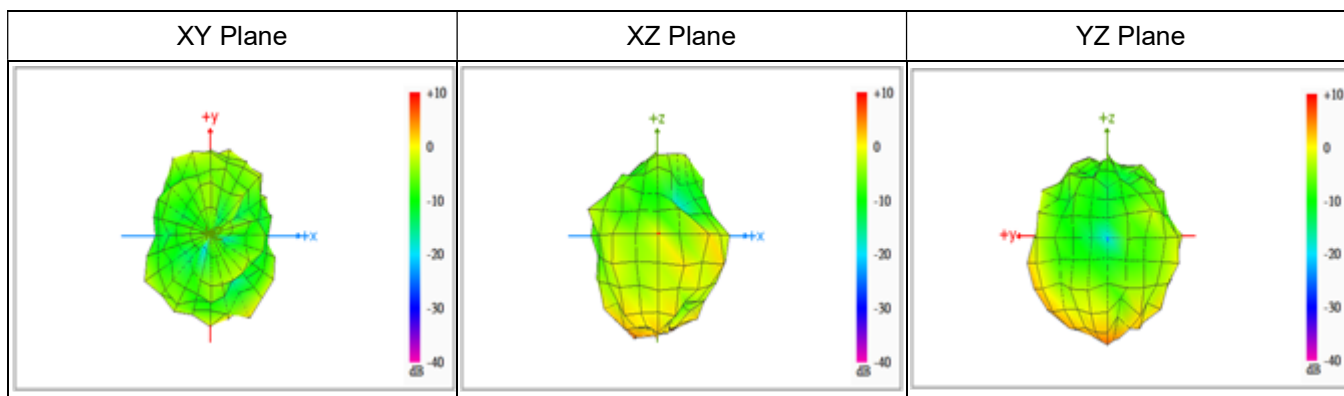
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 2500 MHz

Center Frequency	2500 MHz
Three-dimensional (dBi) peak	1.3

5150-7125MHz radiation characteristic**MAIN antenna: 5150 MHz**

Center Frequency	5150 MHz
Three-dimensional (dBi) peak	3.4

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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DESIGNED BY: 張建焜

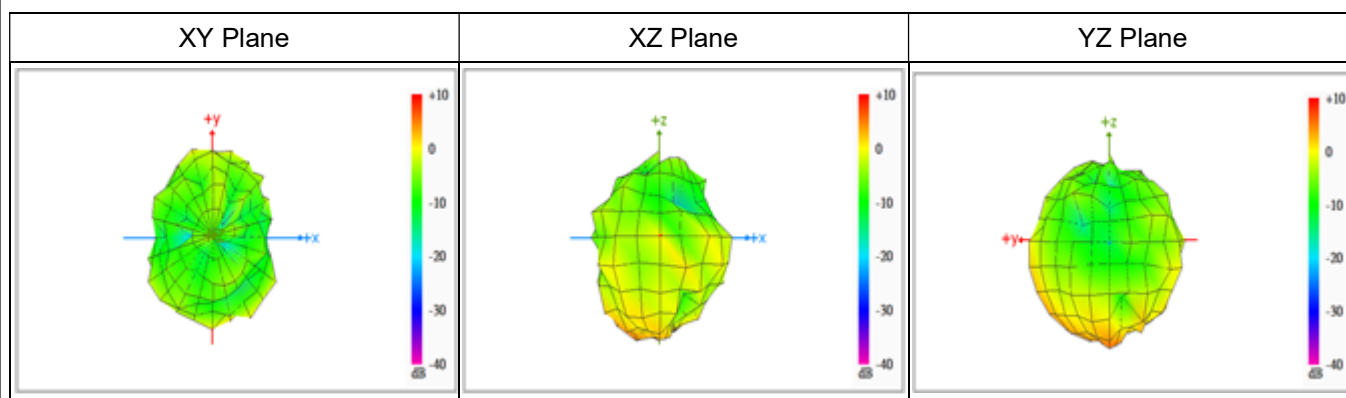
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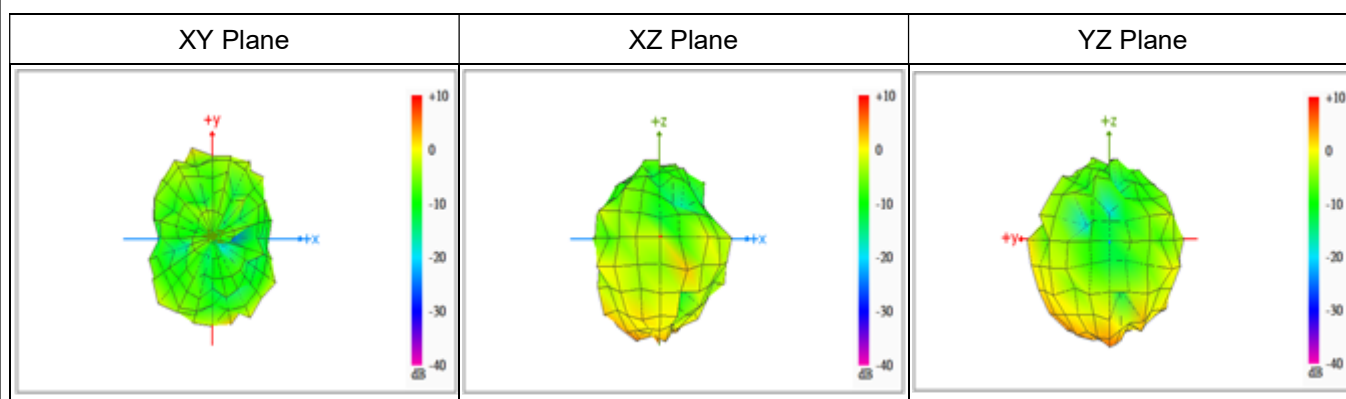
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 5250 MHz

Center Frequency	5250 MHz
Three-dimensional (dBi) peak	2.7

MAIN antenna: 5350 MHz

Center Frequency	5350 MHz
Three-dimensional (dBi) peak	2.8

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

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DESIGNED BY: 張建焜

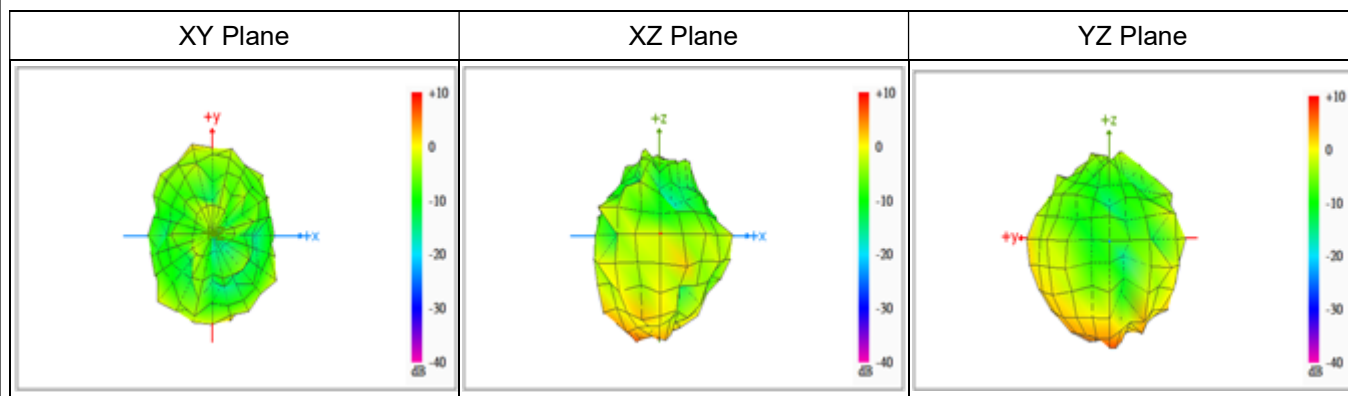
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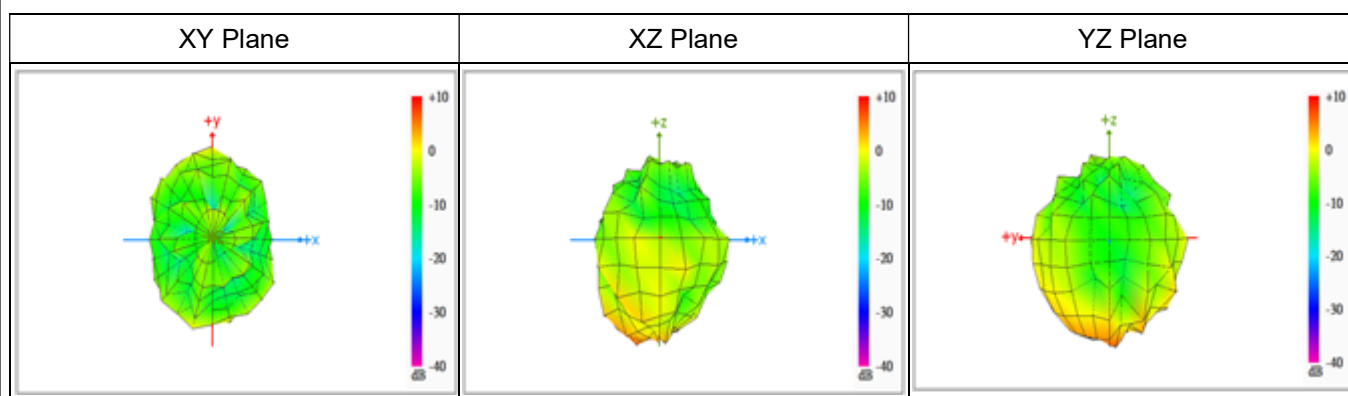
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 5470 MHz

Center Frequency	5470 MHz
Three-dimensional (dBi) peak	3.1

MAIN antenna: 5600 MHz

Center Frequency	5600 MHz
Three-dimensional (dBi) peak	3.1

UNLESS OTHER SPECIFIED TOLERANCES ON :

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 $ANGLES=\pm$ $HOLEDIA=\pm$

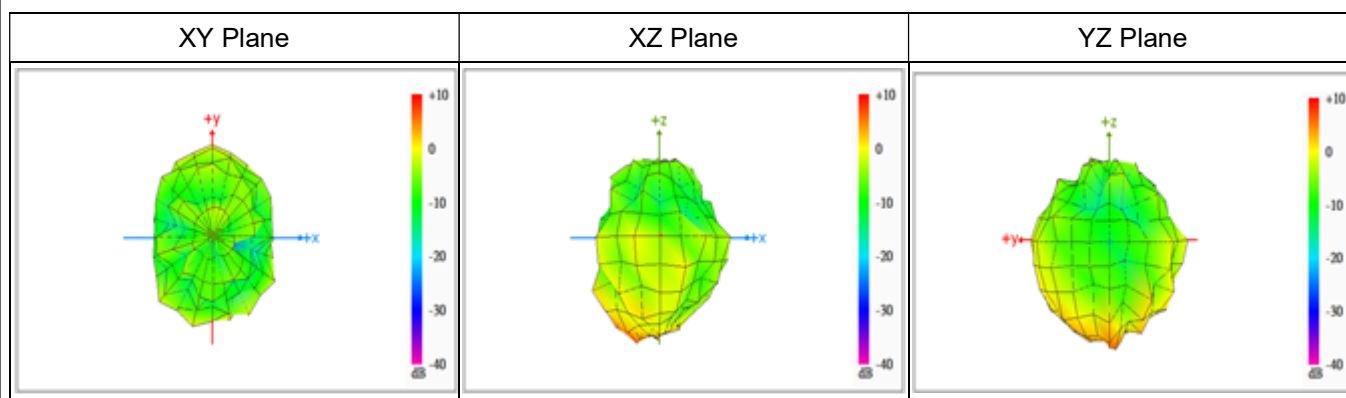
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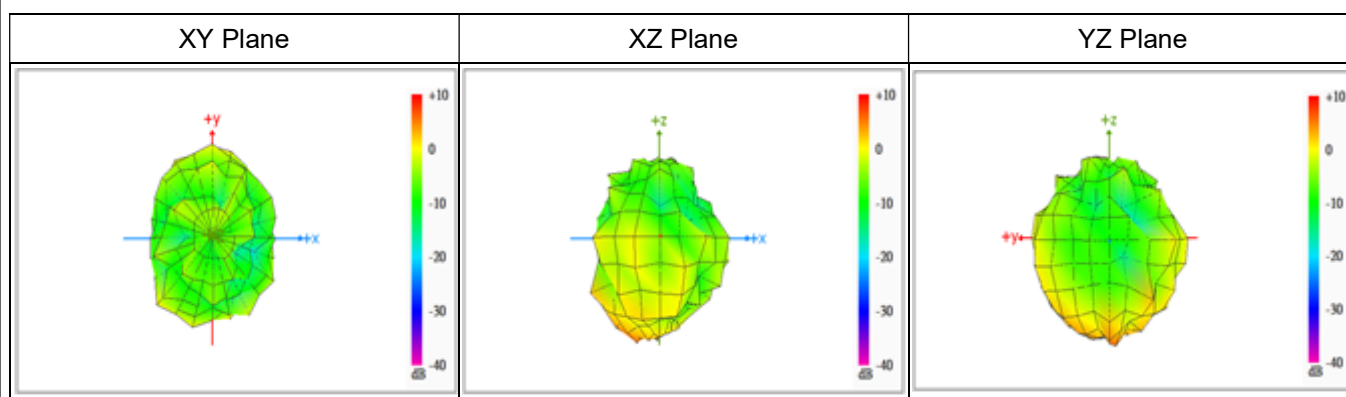
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MAIN antenna: 5725 MHz

Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3.5

MAIN antenna: 5780 MHz

Center Frequency	5780 MHz
Three-dimensional (dBi) peak	2.7

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

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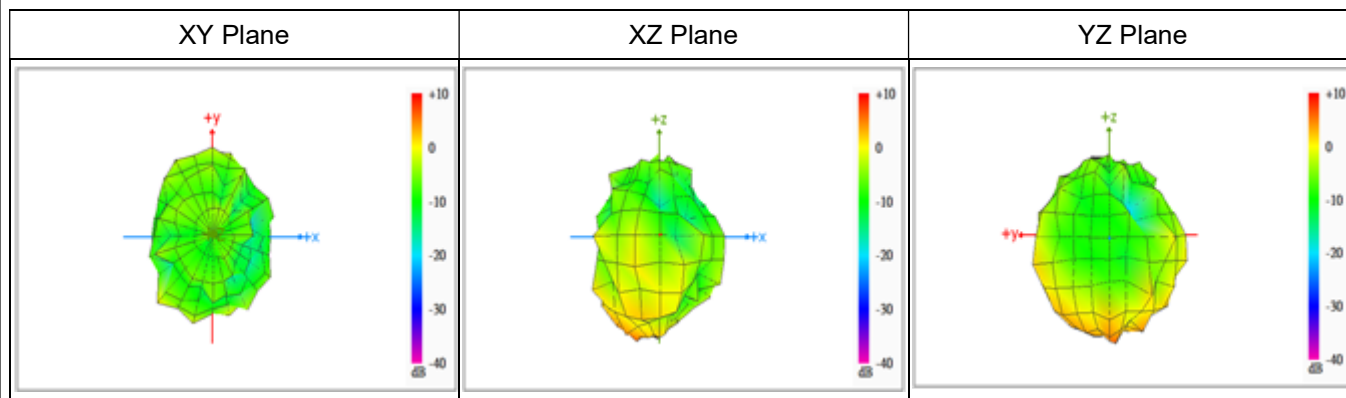
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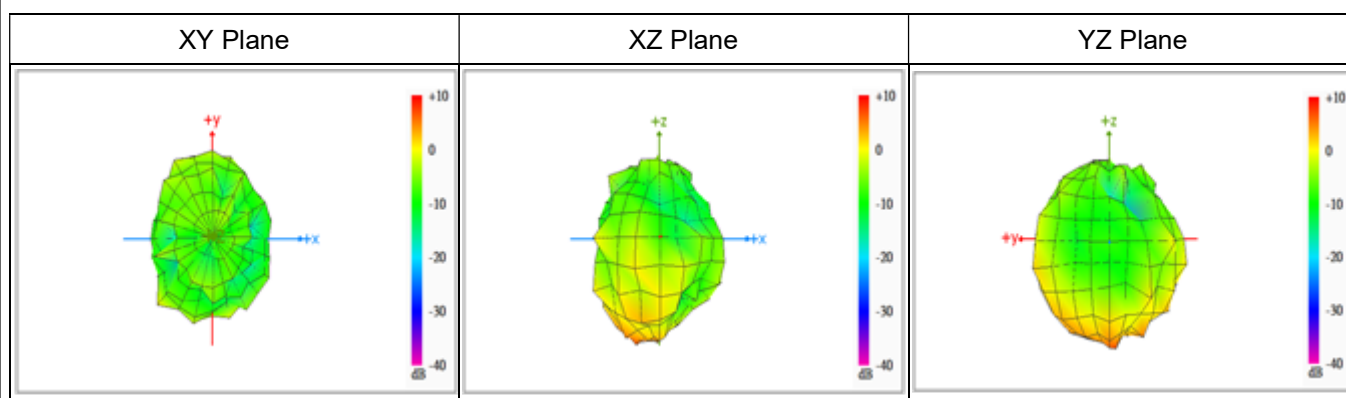
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MAIN antenna: 5850 MHz

Center Frequency	5850 MHz
Three-dimensional (dBi) peak	2.8

MAIN antenna: 5895 MHz

Center Frequency	5895 MHz
Three-dimensional (dBi) peak	3.5

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

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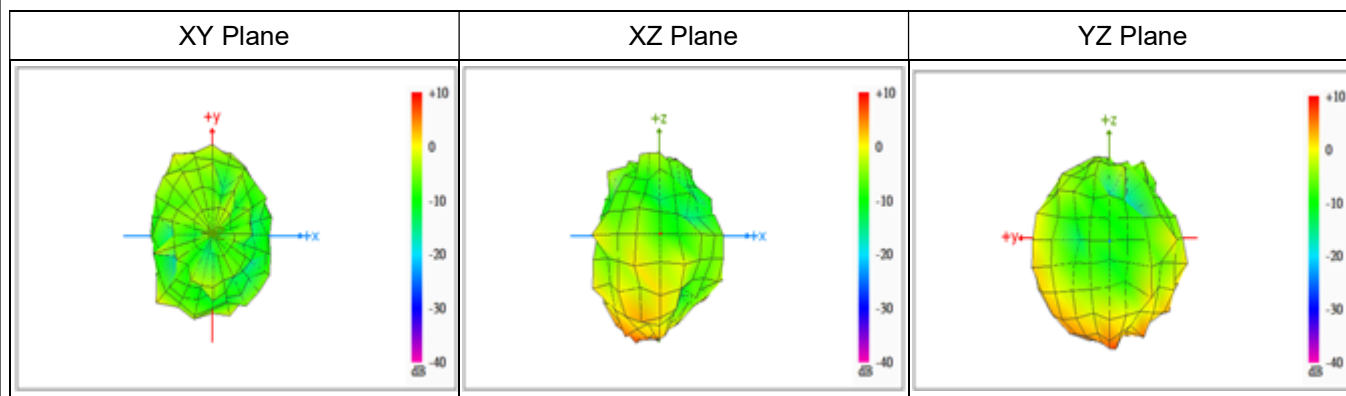
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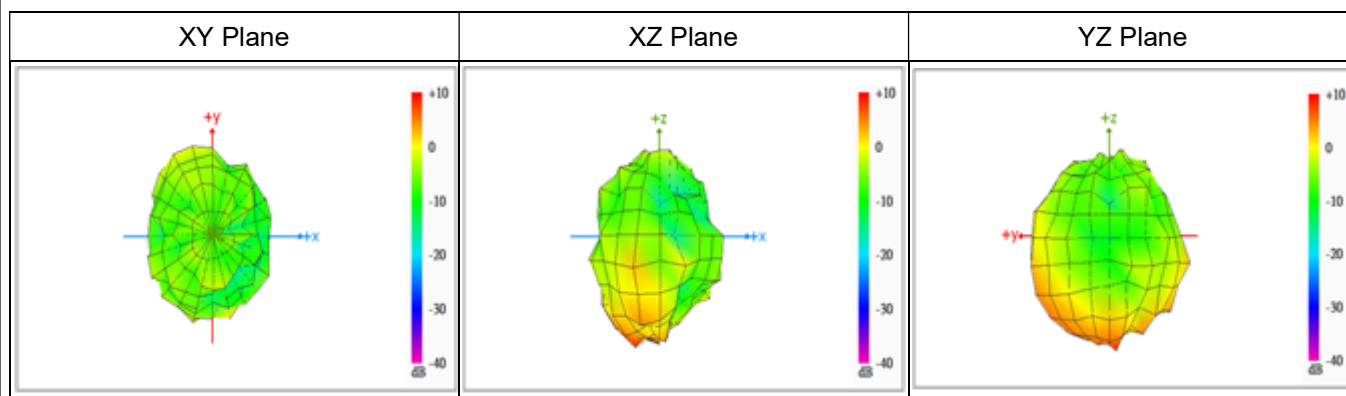
SPEC REV.
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MAIN antenna: 5925 MHz



Center Frequency	5925 MHz
Three-dimensional (dBi) peak	1.8

MAIN antenna: 6125 MHz



Center Frequency	6125 MHz
Three-dimensional (dBi) peak	2.7

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$



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SCALE : N/A

UNIT : mm

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CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

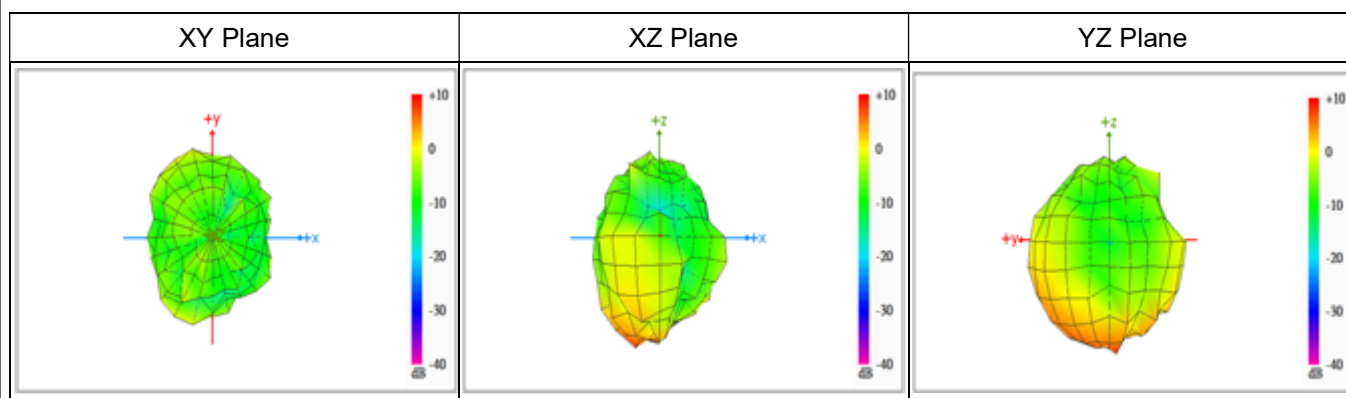
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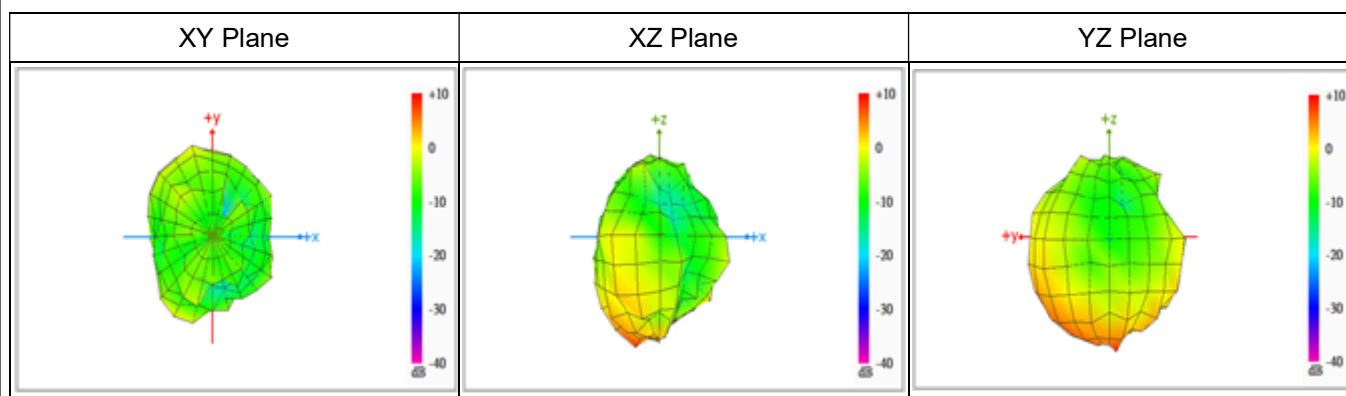
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 6425 MHz

Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.8

MAIN antenna: 6525 MHz

Center Frequency	6525 MHz
Three-dimensional (dBi) peak	3.1

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

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SCALE : N/A

UNIT : mm

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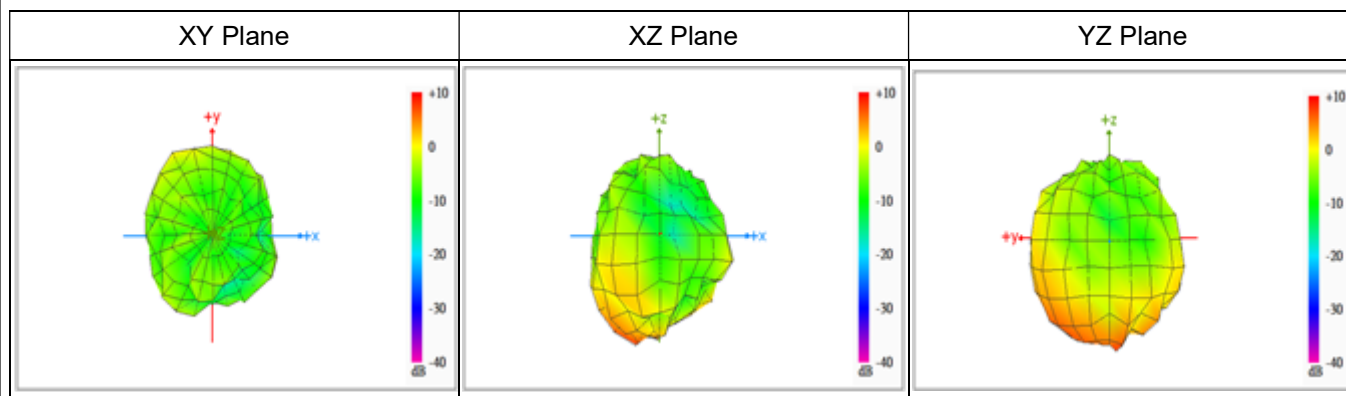
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DESIGNED BY: 張建焜

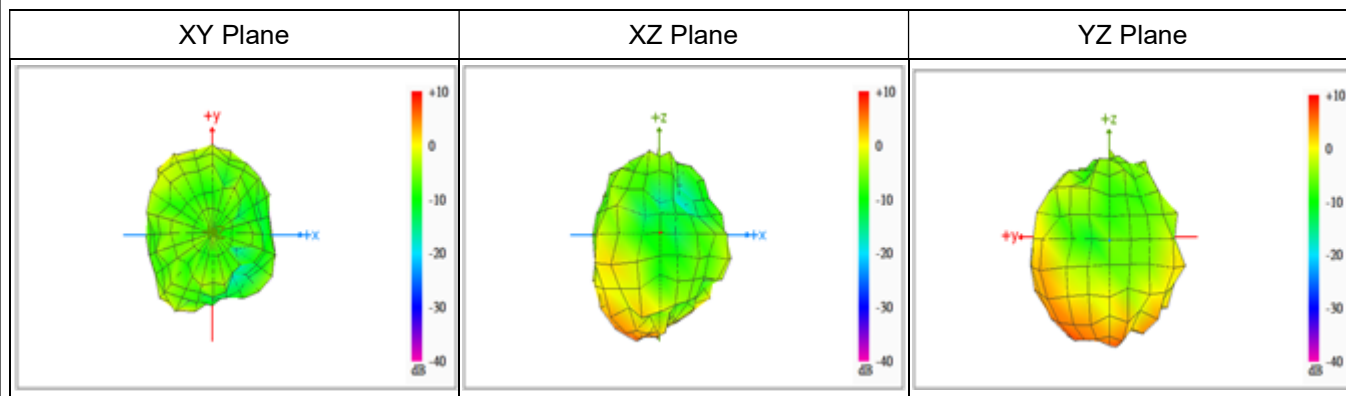
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MAIN antenna: 6725 MHz

Center Frequency	6725 MHz
Three-dimensional (dBi) peak	3.0

MAIN antenna: 6875 MHz

Center Frequency	6875 MHz
Three-dimensional (dBi) peak	3.4

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X=\pm$ $X.X=\pm$ $X.XX=\pm$
 $ANGLES=\pm$ $HOLEDIA=\pm$

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SCALE : N/A

UNIT : mm

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DESIGNED BY: 張建焜

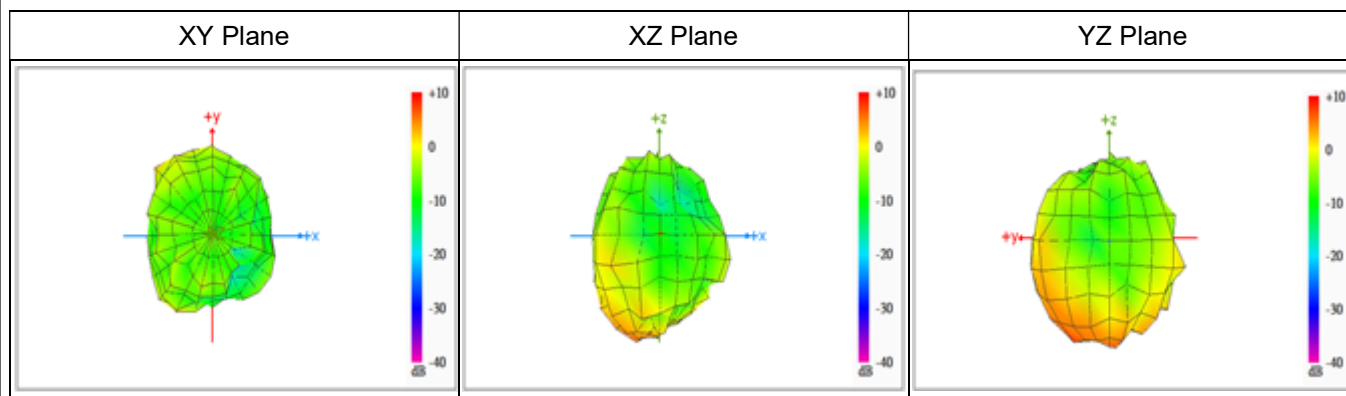
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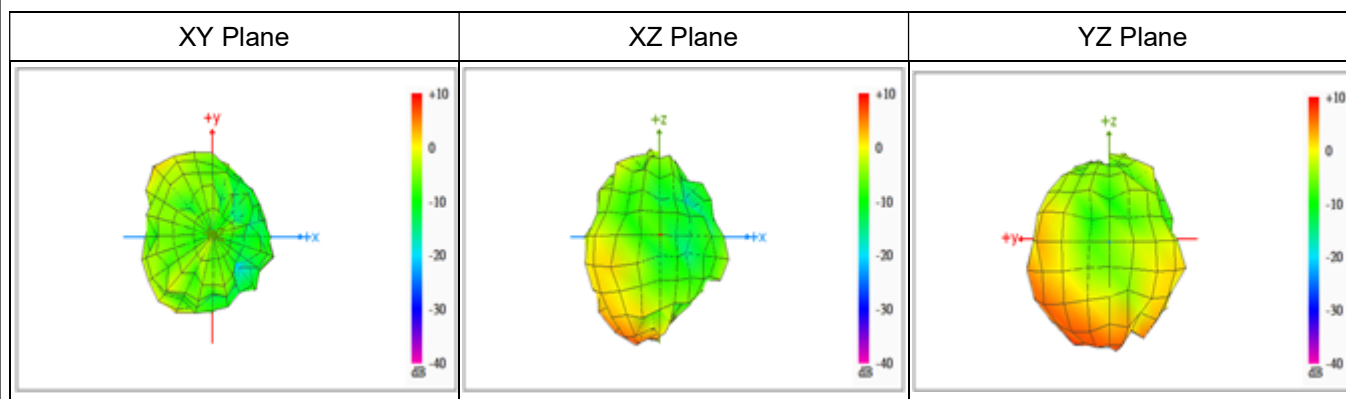
TITLE : Embedded Multi-Band Antenna for
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MAIN antenna: 6925 MHz

Center Frequency	6925 MHz
Three-dimensional (dBi) peak	3.9

MAIN antenna: 7125 MHz

Center Frequency	7125 MHz
Three-dimensional (dBi) peak	2.8

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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