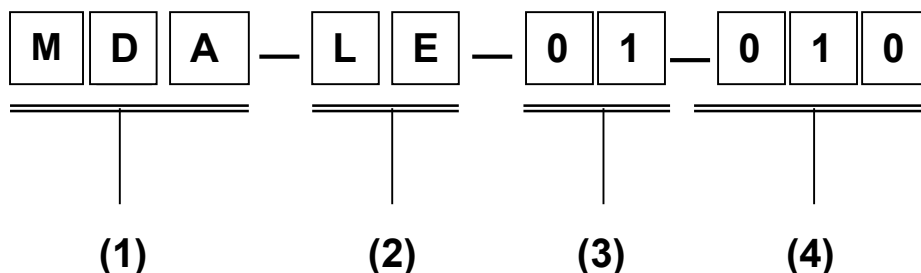


Embedded Multi-Band Antenna for MDA-LE-01-010

3. Explanation of part number :



(5) Product type/Material : Wireless Antenna/Holder+LDS

(6) Frequency/Band code : 2400~2500 & 5150~5895MHz & 5925~7125MHz

(7) Coaxial Cable Type : White Cable

(8) Suffix : 010

2. Electrical Specification :

Ant. Part Number (main & aux 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-01-010 ASUS P/N: 14008-05890000	PIFA	1.7@2.4G 3.40@5G 2.60@5.925~6.425GHz 2.50@6425~6525GHz 3.30@6.525~6.875GHz 3.9@6.875~7.125GHz	0.91@2.4G 1.41@5G 1.48@5.925~6.425GHz 1.51@6425~6525GHz 1.55@6.525~6.875GHz 1.60@6.875~7.125GHz	I-PEX MHF4-L	317mm	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
MDA-LE-02-023

DOCUMENT
NO.

SPEC REV.
P0

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	25.8	-5.9	0.3
2412	27.3	-5.6	0.7
2437	29.7	-5.3	1.6
2462	27.7	-5.6	1.7
2500	21.1	-6.8	0.5
5150	43.5	-3.6	1.1
5250	49.4	-3.1	3.4
5350	41.4	-3.8	2.3
5470	44.8	-3.5	2.3
5600	44.1	-3.6	1.8
5725	52.2	-2.8	2.1
5780	58.2	-2.4	3.1
5850	45.5	-3.4	1.9
5895	50.0	-3.0	2.6
5925	42.3	-3.7	1.7
6125	46.7	-3.3	2.6
6425	52.5	-2.8	2.5
6525	51.3	-2.9	2.1
6725	57.2	-2.4	2.6
6875	59.6	-2.3	3.3
6925	70.2	-1.5	3.9
7125	48.9	-3.1	3.4

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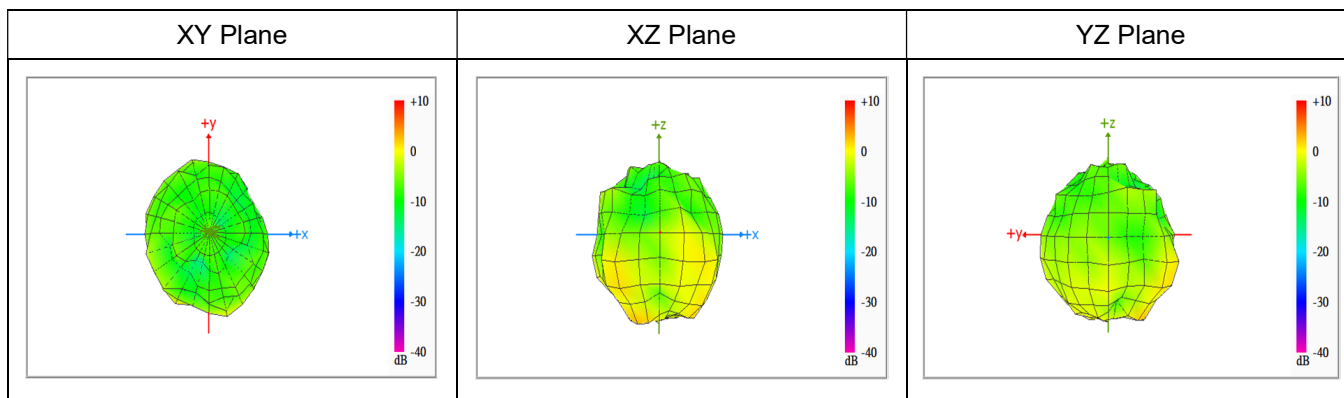
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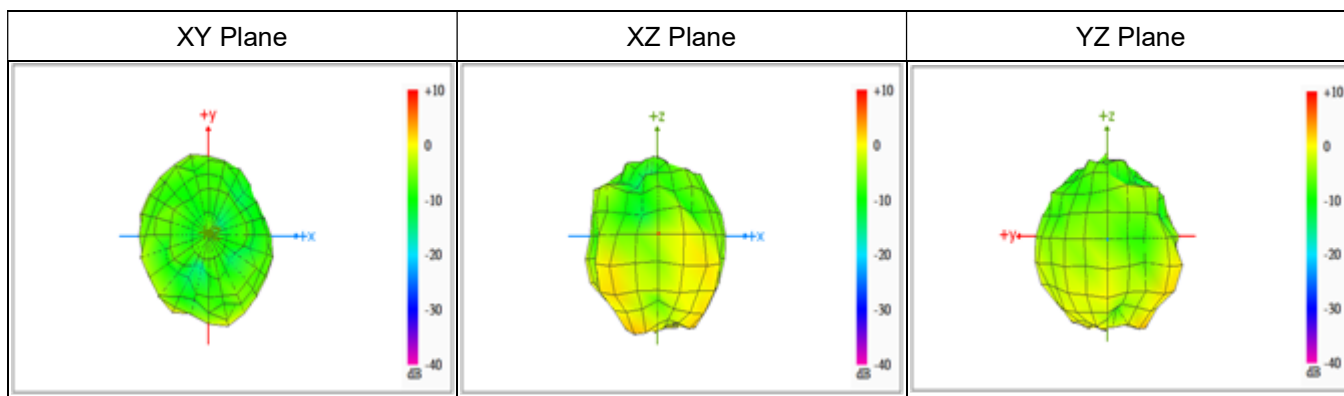
TITLE : Embedded Multi-Band Antenna for
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DOCUMENT
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2400-2500MHz radiation characteristic**Aux antenna: 2400 MHz**

Center Frequency	2400 MHz
Three-dimensional (dBi) peak	0.3

Aux antenna: 2412 MHz

Center Frequency	2412 MHz
Three-dimensional (dBi) peak	0.7

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

**INPAQ TECHNOLOGY CO., LTD.**

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UNIT : mm

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CHECKED BY:鄭榮謀

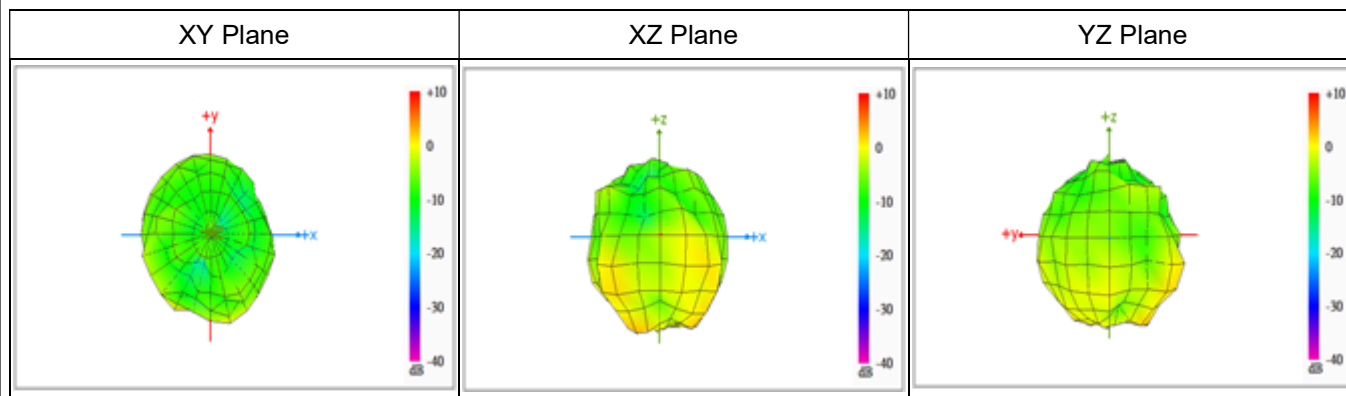
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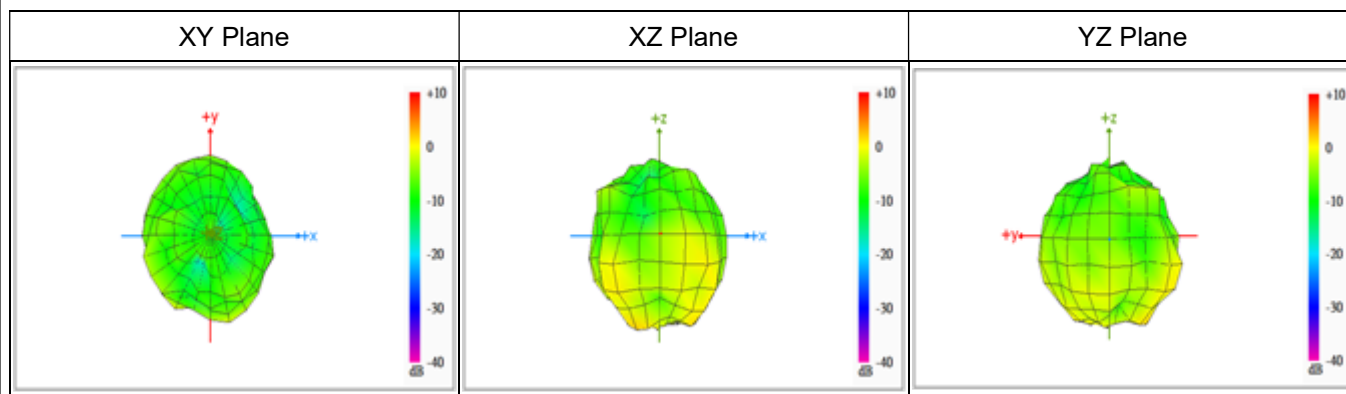
TITLE : Embedded Multi-Band Antenna for
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DOCUMENT
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SPEC REV.
P0

Aux antenna: 2437 MHz



Center Frequency	2437 MHz
Three-dimensional (dBi) peak	1.6

Aux 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

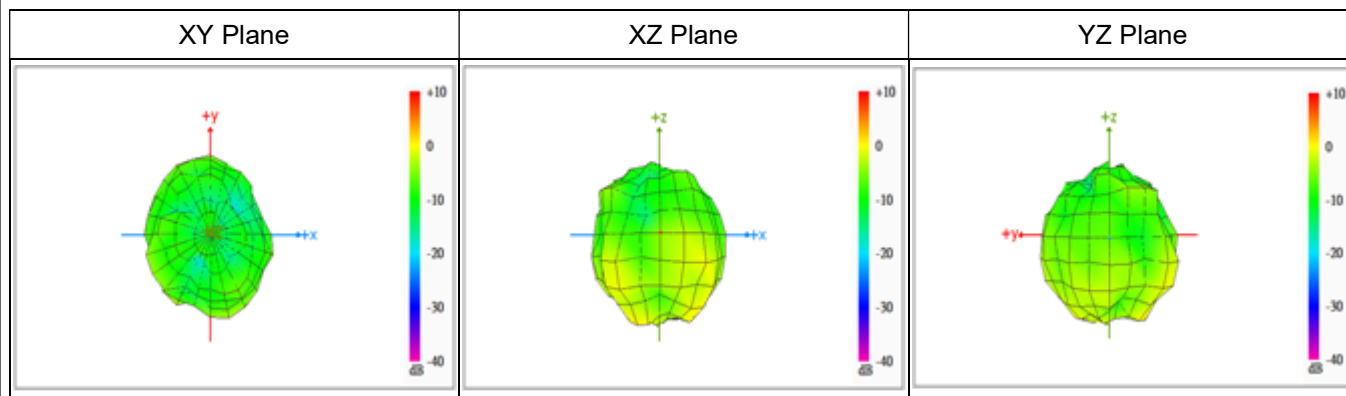
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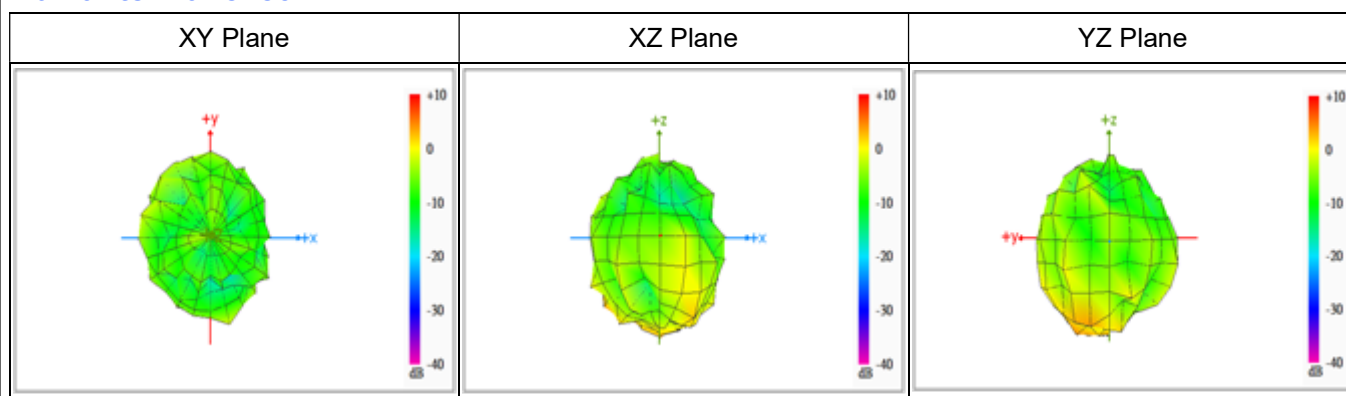
TITLE : Embedded Multi-Band Antenna for
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DOCUMENT
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SPEC REV.
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Aux antenna: 2500 MHz

Center Frequency	2500 MHz
Three-dimensional (dBi) peak	0.5

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

Center Frequency	5150 MHz
Three-dimensional (dBi) peak	1.1

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

**INPAQ TECHNOLOGY CO., LTD.**

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UNIT : mm

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CHECKED BY:鄭榮謀

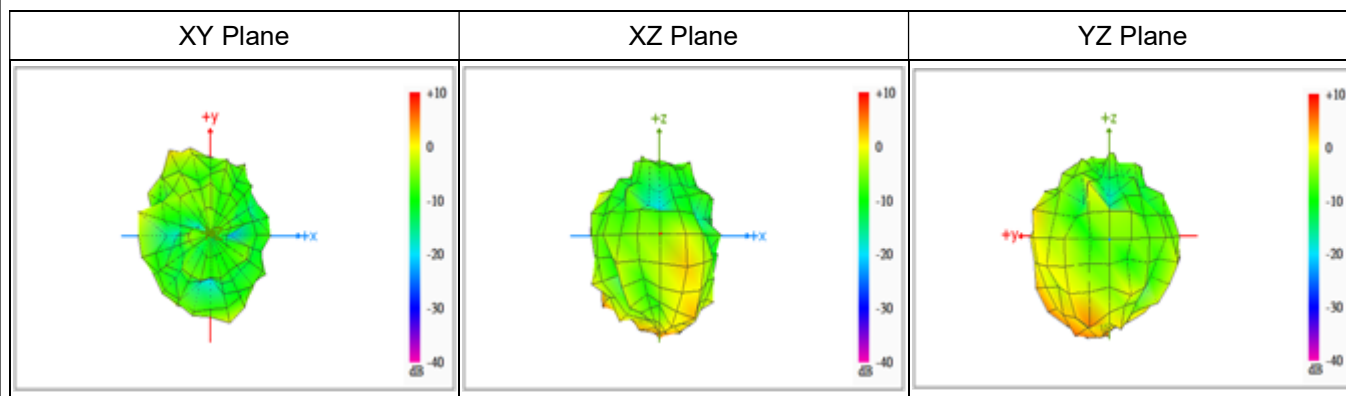
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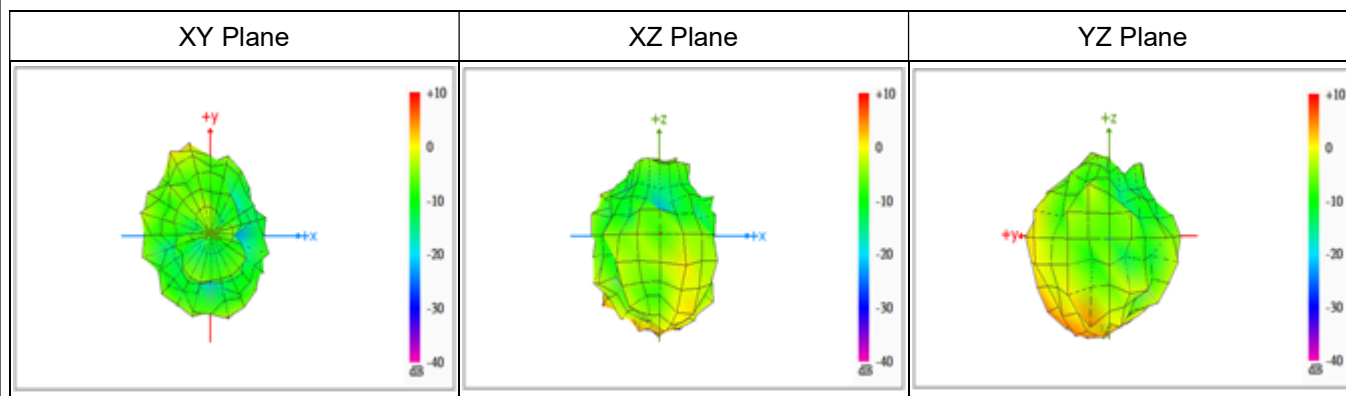
TITLE : Embedded Multi-Band Antenna for
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Aux antenna: 5250 MHz



Center Frequency	5250 MHz
Three-dimensional (dBi) peak	3.4

Aux antenna: 5350 MHz



Center Frequency	5350 MHz
Three-dimensional (dBi) peak	2.3

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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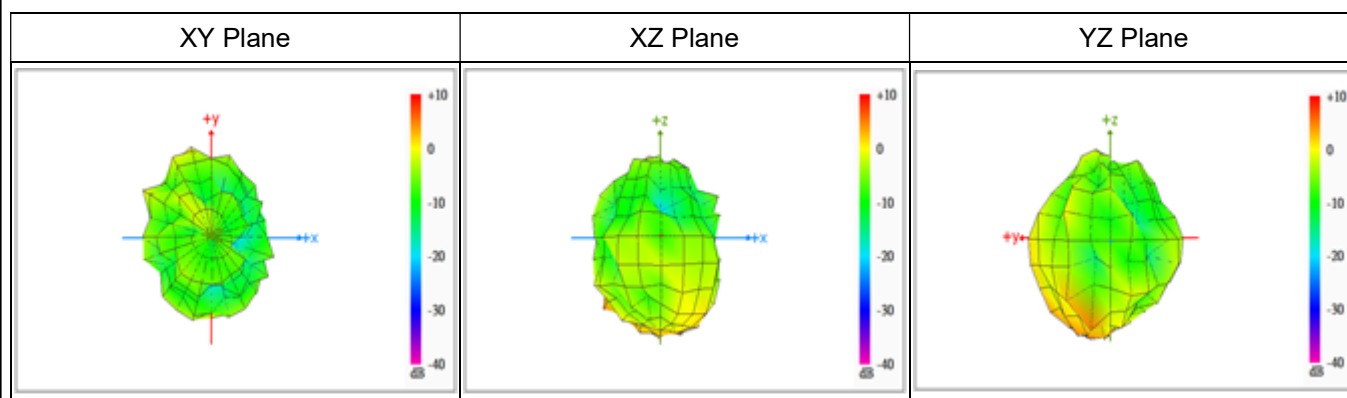
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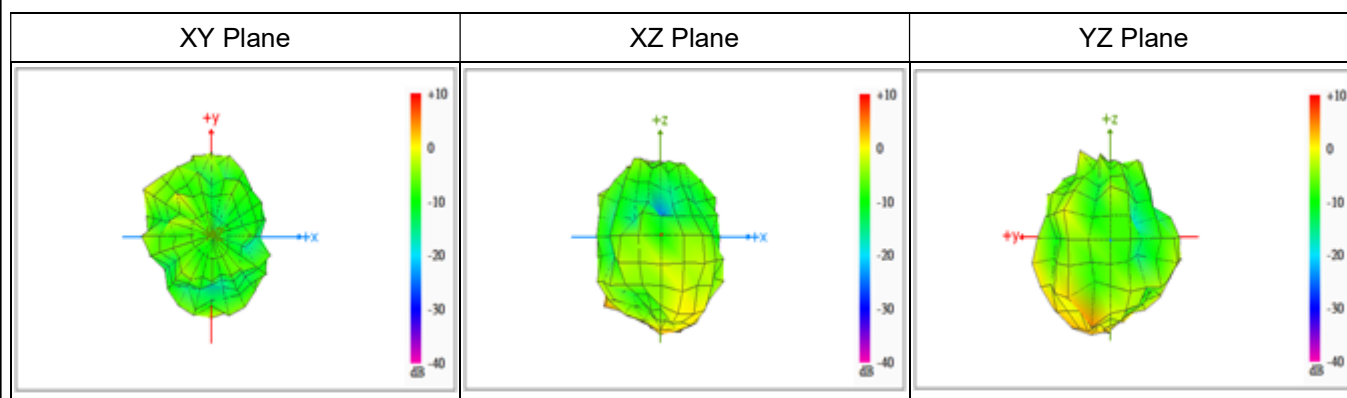
SPEC REV.
P0

Aux antenna: 5470 MHz



Center Frequency	5470 MHz
Three-dimensional (dBi) peak	2.3

Aux antenna: 5600 MHz



Center Frequency	5600 MHz
Three-dimensional (dBi) peak	1.8

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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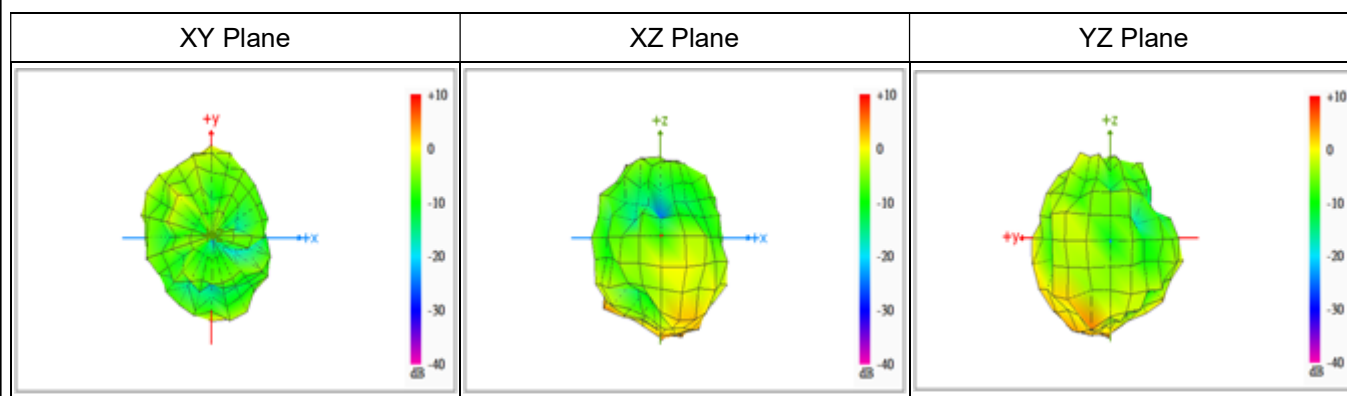
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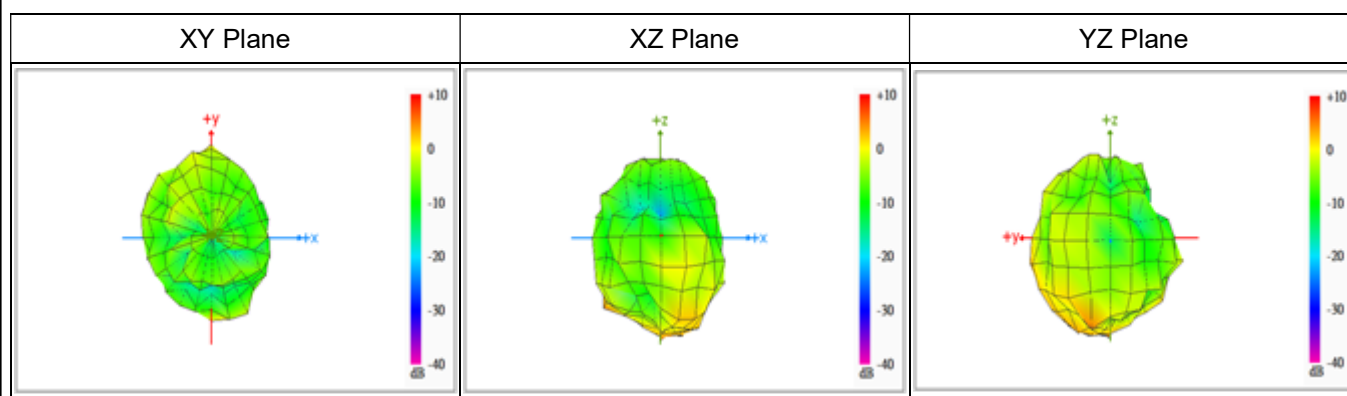
SPEC REV.
P0

Aux antenna: 5725 MHz



Center Frequency	5725 MHz
Three-dimensional (dBi) peak	2.1

Aux antenna: 5780 MHz



Center Frequency	5780 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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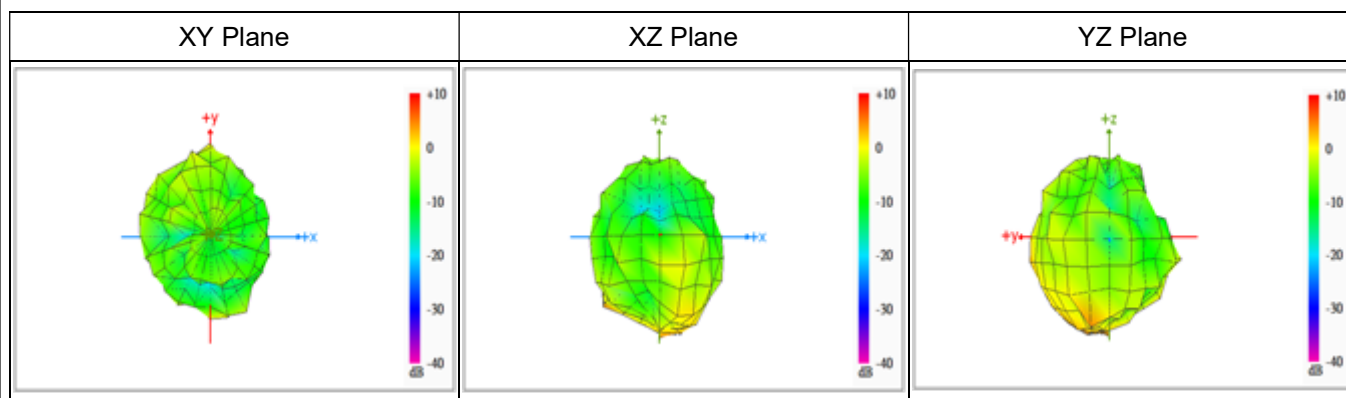
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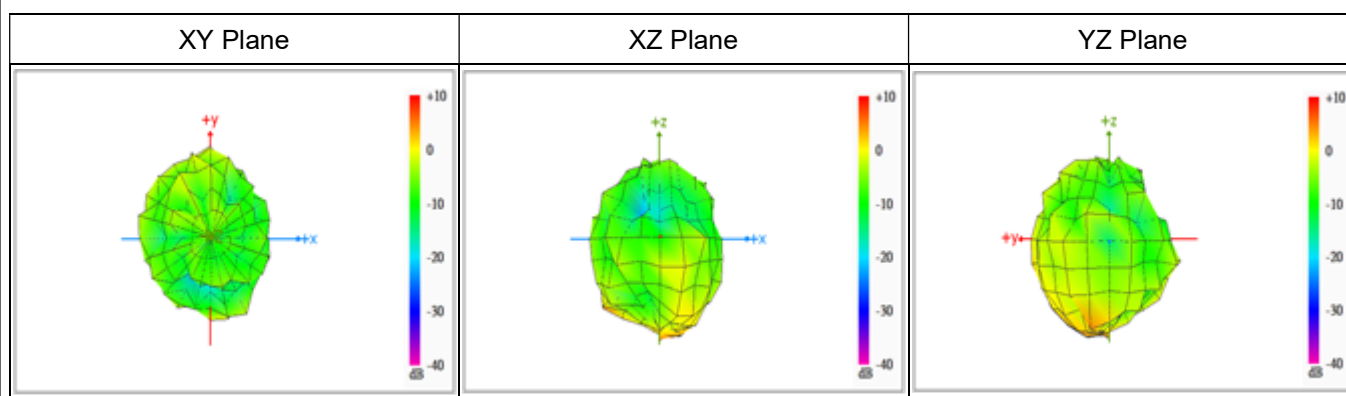
SPEC REV.
P0

Aux antenna: 5850 MHz



Center Frequency	5850 MHz
Three-dimensional (dBi) peak	1.9

Aux antenna: 5895 MHz



Center Frequency	5895 MHz
Three-dimensional (dBi) peak	2.6

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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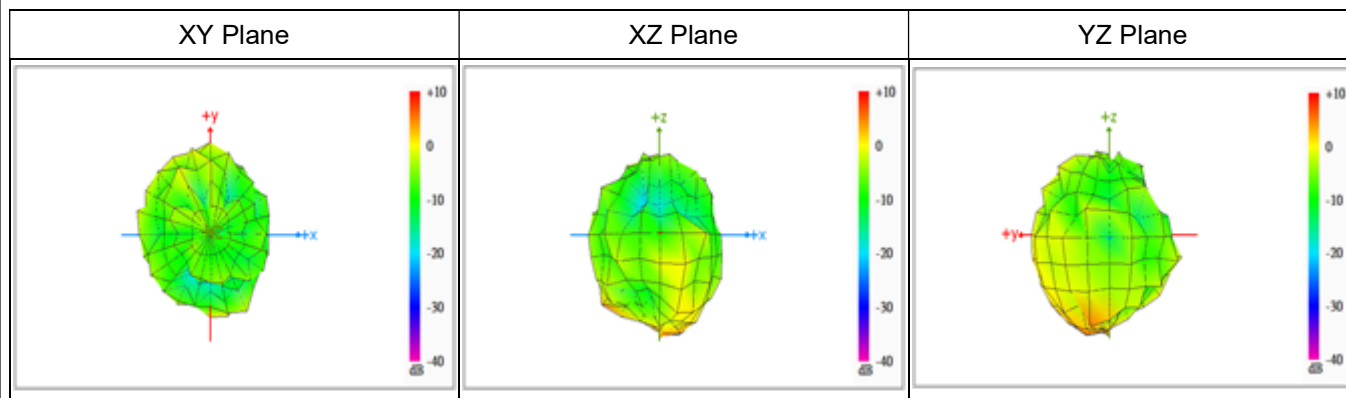
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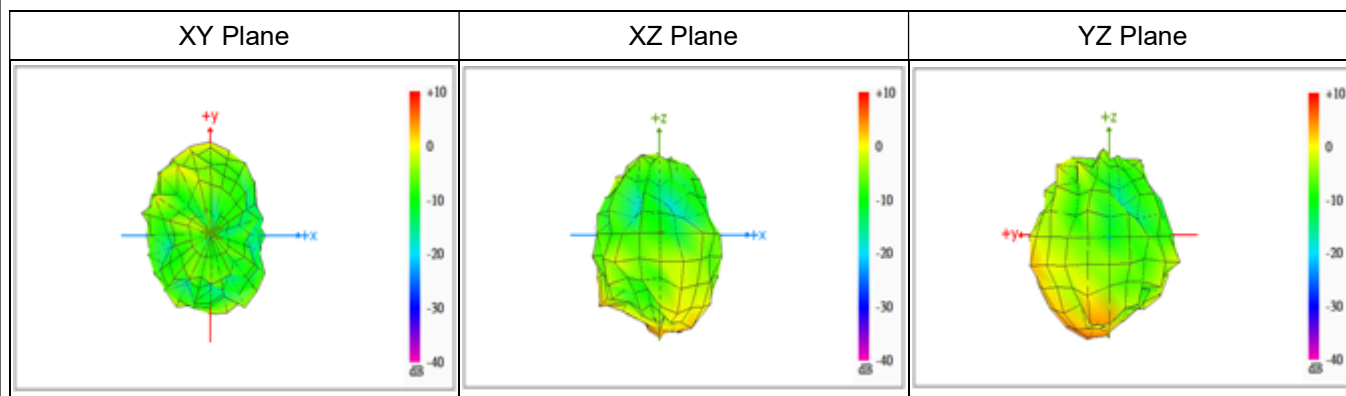
SPEC REV.
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Aux antenna: 5925 MHz



Center Frequency	5925 MHz
Three-dimensional (dBi) peak	1.7

Aux antenna: 6125 MHz



Center Frequency	6125 MHz
Three-dimensional (dBi) peak	2.6

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

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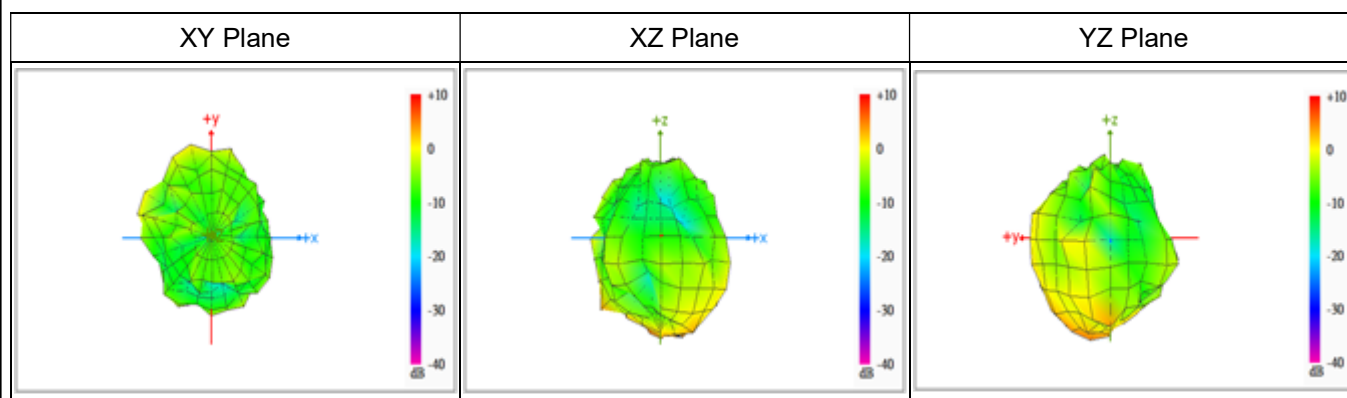
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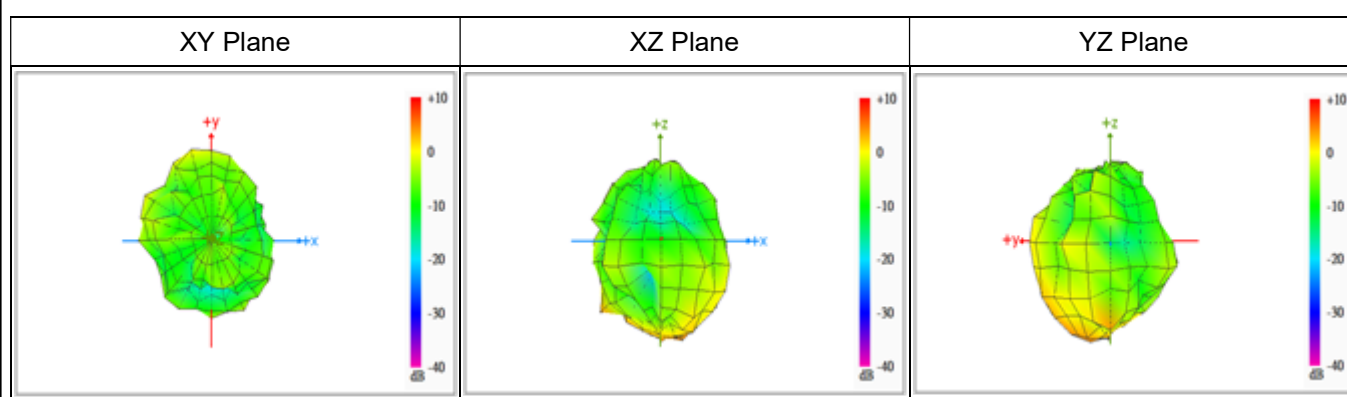
SPEC REV.
P0

Aux antenna: 6425 MHz



Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.5

Aux antenna: 6525 MHz



Center Frequency	6525 MHz
Three-dimensional (dBi) peak	2.1

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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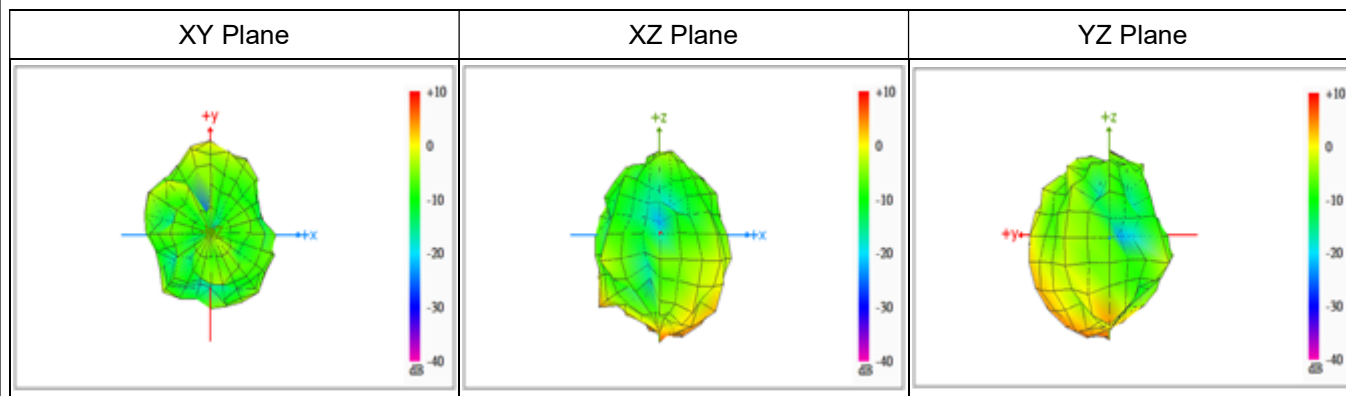
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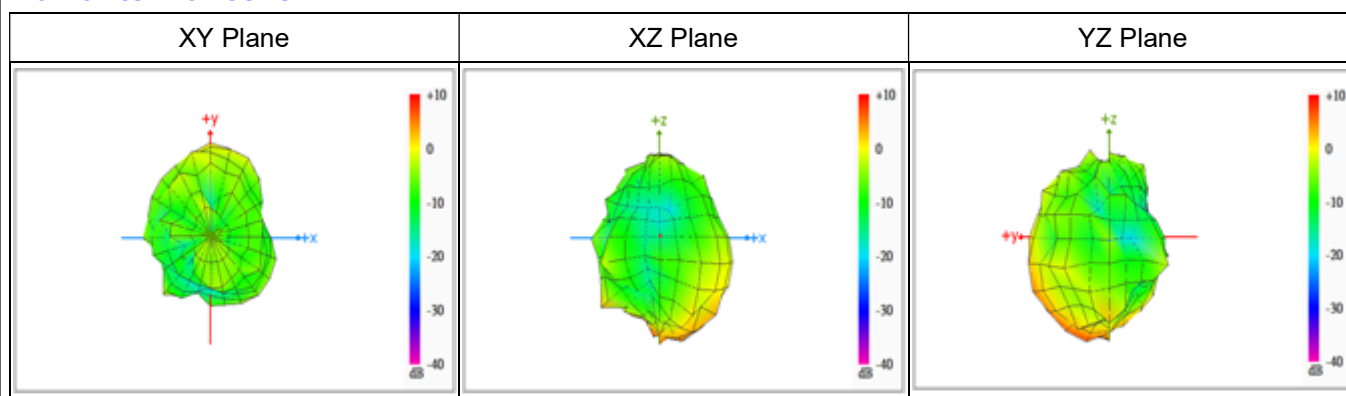
TITLE : Embedded Multi-Band Antenna for
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DOCUMENT
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SPEC REV.
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Aux antenna: 6725 MHz

Center Frequency	6725 MHz
Three-dimensional (dBi) peak	2.6

Aux antenna: 6875 MHz

Center Frequency	6875 MHz
Three-dimensional (dBi) peak	3.3

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

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UNIT : mm

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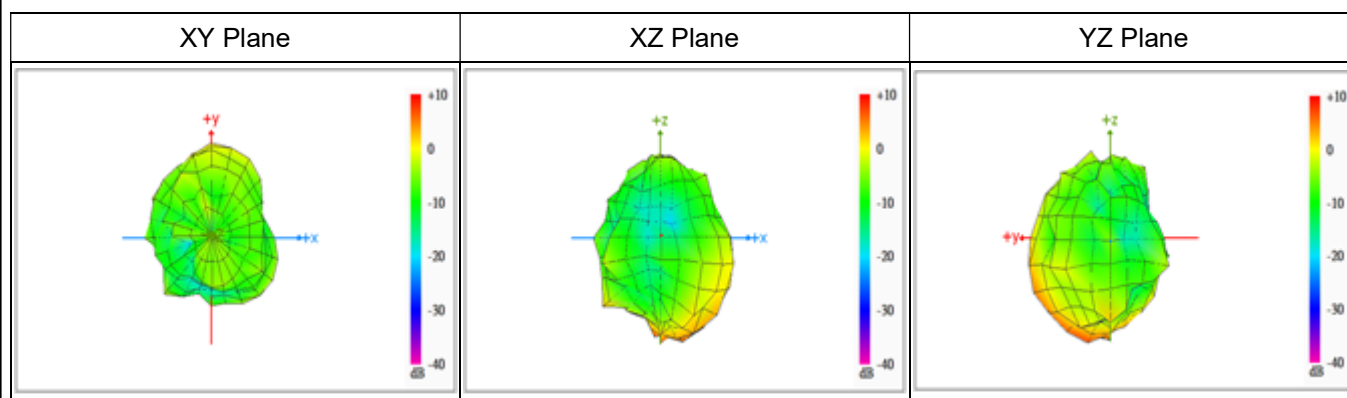
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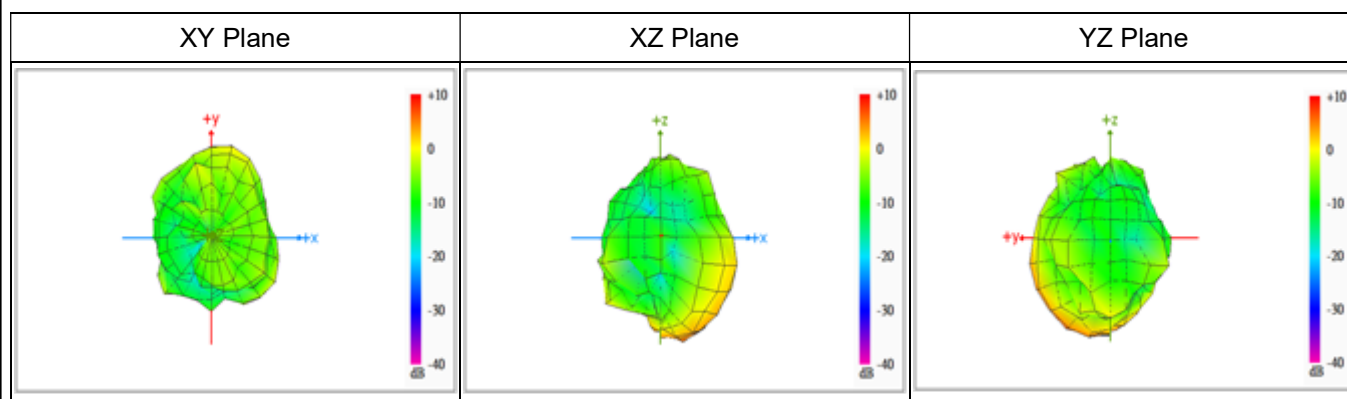
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Aux antenna: 6925 MHz



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

Aux antenna: 7125 MHz



Center Frequency	7125 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

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