# Drongo Antenna Information

## Wistron NeWeb Corporation

# Drongo Antenna Information

## I. Antenna Assembly Specifications

**Antenna assembly overview: Peak Gain including cable loss.**

| Designator | Manufacture | Antenna type | Cable Assembly Info. | Peak Gain W/ Cable loss (dBi) |
|---|---|---|---|---|
| Main antenna (P/N:81.EBF15.001) | WNC | Metal PIFA | 1.(1)Cable P/N:J12B1394-2,50ohm cable,length:323mm,diameter 1.13mm. (2)connector P/N:20278-101R-13, I-PEX or WNC connector . | 2400-2500MHz -0.2 dBi (peak)<br>5150-5350MHz 2.81dBi (peak)<br>5470-5825MHz 1.93 dBi (peak) |
| Auxiliary antenna (P/N:81.EBF15.002) | WNC | Metal PIFA | 1.(1)Cable P/N:J12B1394-1,50ohm cable,length:460mm,diameter 1.13mm. (2)connector P/N:20278-101R-13 ,I-PEX or WNC connector. | 2400-2500MHz 2.48 dBi (peak)<br>5150-5350MHz 2.25 dBi (peak)<br>5470-5825MHz 2.88 dBi (peak) |

**Antenna overview: Peak Gain not including cable loss.**

| Antenna Designator | Manufacture | Antenna type | Peak Gain w/o Cable Loss (dBi) |
|---|---|---|---|
| Main antenna (P/N:81.EBF15.001) | WNC | Metal PIFA | 2400-2500MHz 0.8 dBi (peak)<br>5150-5350MHz 4.31dBi (peak)<br>5470-5825MHz 3.53dBi (peak)<br>) |
| Auxiliary antenna (P/N:81.EBF15.002) | WNC | Metal PIFA | 2400-2500MHz 3.88 dBi (peak)<br>5150-5350MHz 4.45 dBi (peak)<br>5470-5825MHz 5.18 dBi (peak) |

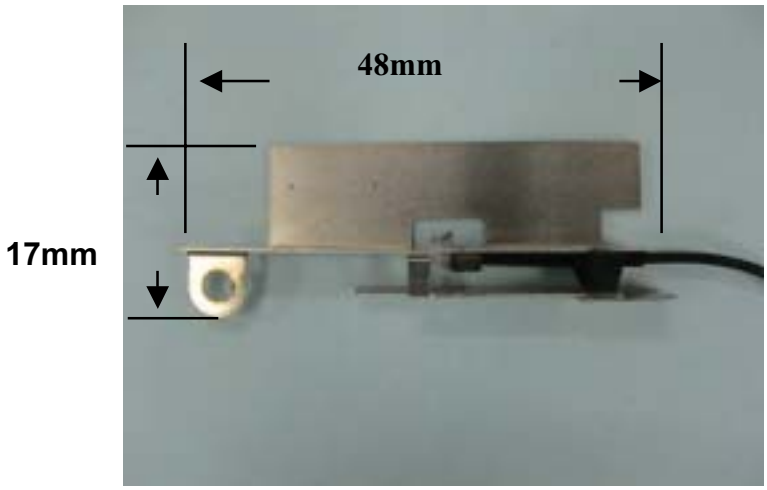
**Cable assembly overview: Cable loss (including connector).**

| Designator | Manufacture | Cable type and length | VSWR | Cable Loss (dBi) |
|---|---|---|---|---|
| 1. P/N: 50.CAB02.011<br>2. P/N:50.EBF03.001<br>For use with the Main antenna | WNC | 1.(1)Cable P/N:J12B1394-<br>coaxil cable,length:323mm,dia<br>1.13mm.<br>(2)connector P/N:20278-1<br>I-PEX.<br>2.(1)Cable P/N: | 2400-2500MHz<br>1.59 max | 2400-2500MHz<br>1 dBi (peak) |
| | | | 5150-5350MHz<br>1.53 max | 5150-5350MHz<br>1.5dBi (peak) |
| | | | 5470-5825MHz<br>1.84 max | 5470-5825MHz<br>1.6 dBi (peak) |
| | | | | |
| 1. P/N: 50.EBF01.001<br>2. P/N:50.EBF02.001<br>For use with the Auxiliary antenna | WNC | 1.(1)Cable P/N:J12B1394-<br>coaxil cable,length:460mm,dia<br>1.13mm.<br>(2)connector P/N:20278-1<br>,I-PEX.<br>2. | 2400-2500MHz<br>1.46 max | 2400-2500MHz<br>1.4 dBi (peak) |
| | | | 5150-5350MHz<br>1.95 max | 5150-5350MHz<br>2.2 dBi (peak) |
| | | | 5470-5825MHz<br>2.05 max | 5470-5825MHz<br>2.3 dBi (peak) |
| | | | | |

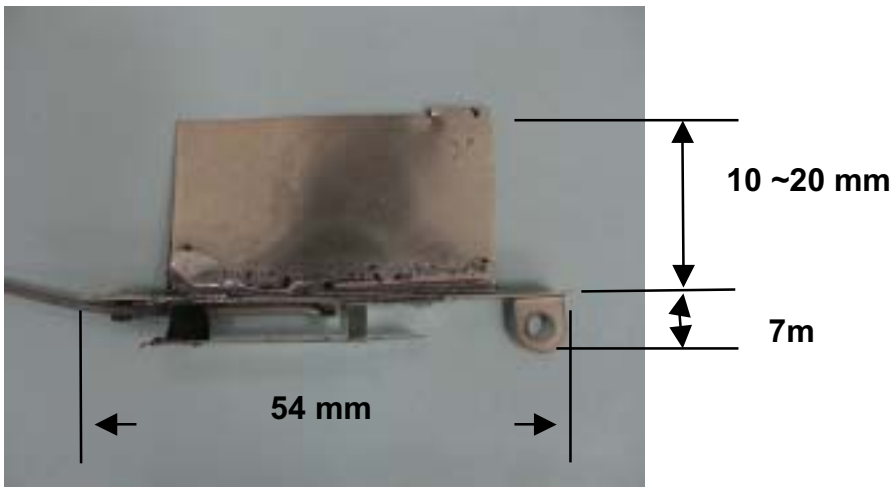
## NOTE:

**For Japan, Korea, and China the antenna data is the same as what this document requests:**

## Main antenna dimensioned drawing

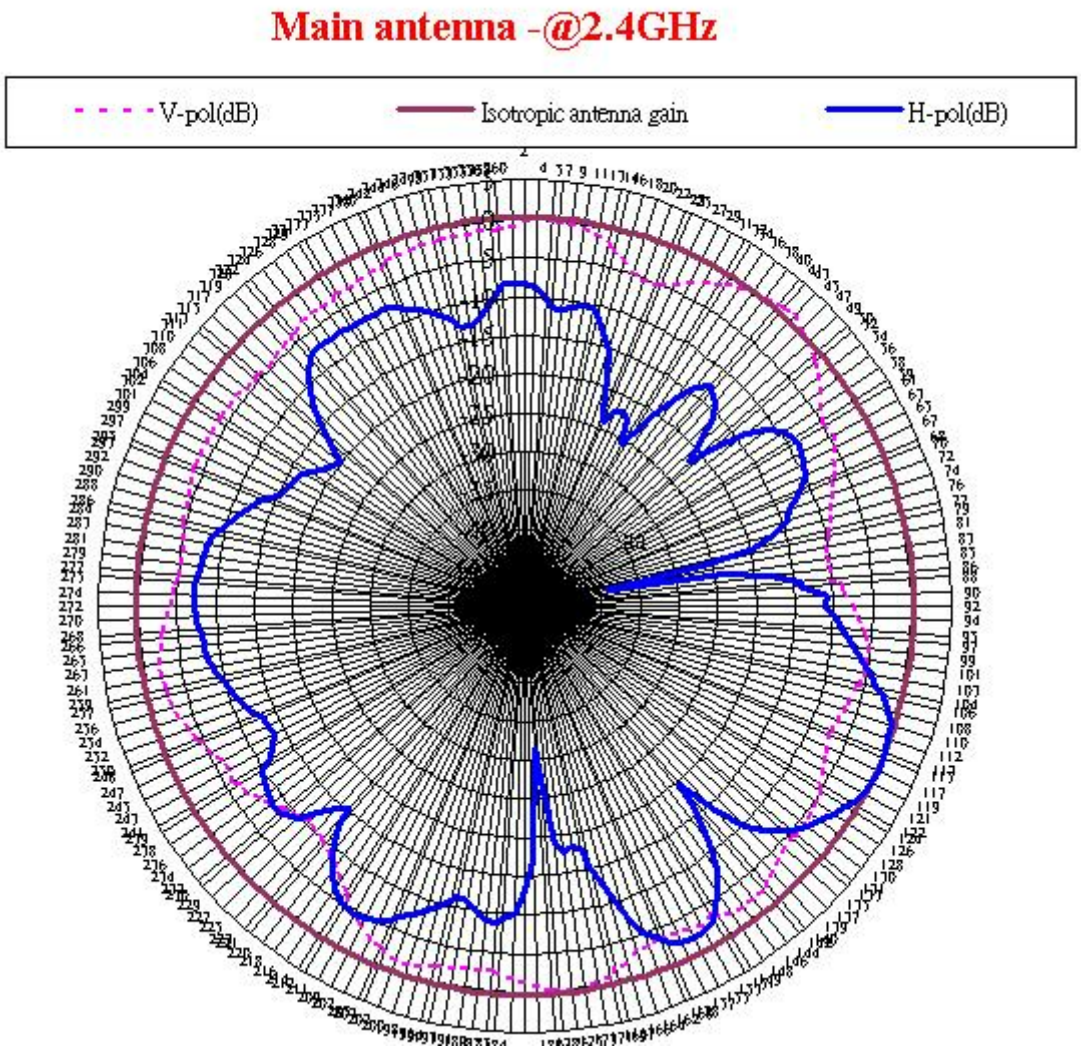



## AUX antenna dimensioned drawing



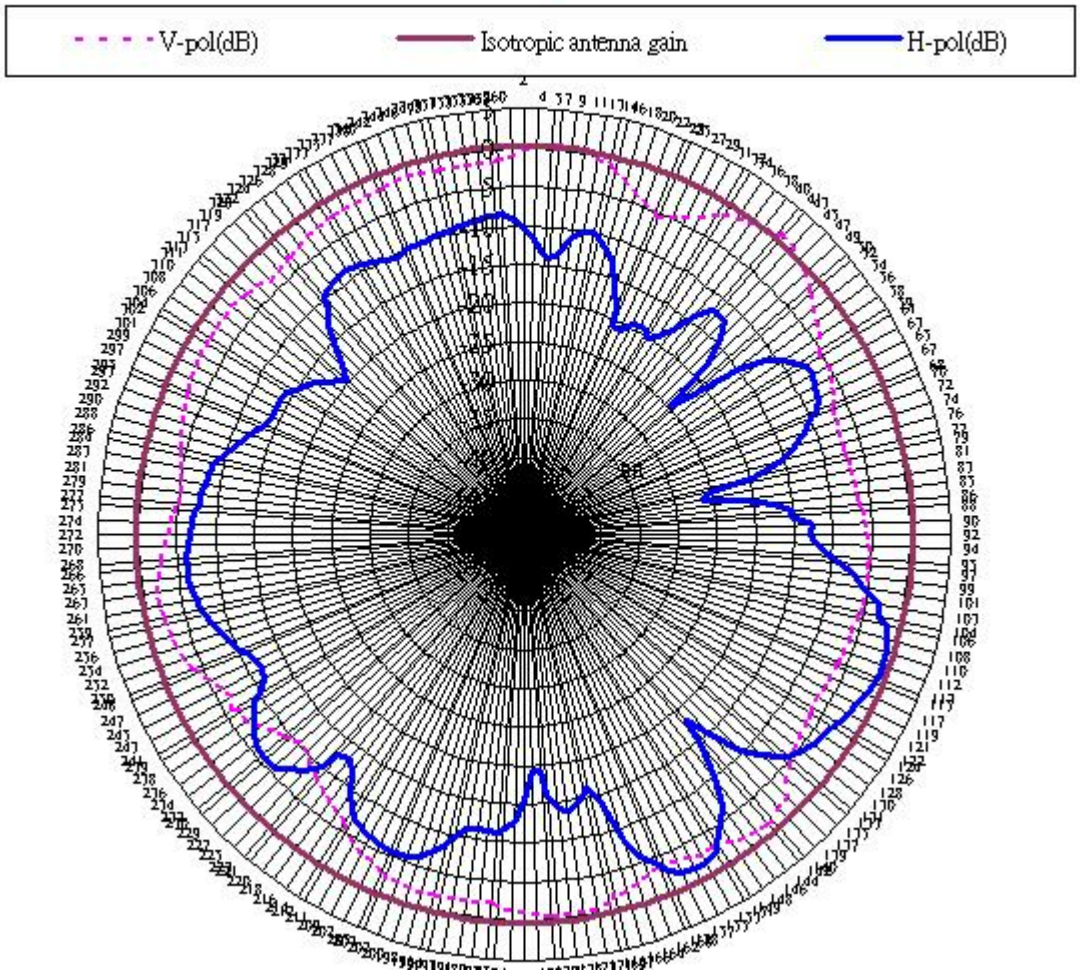
# Radiation characteristic of antennaeLoaded (In Host System)

## 2400-2500MHz radiation characteristic



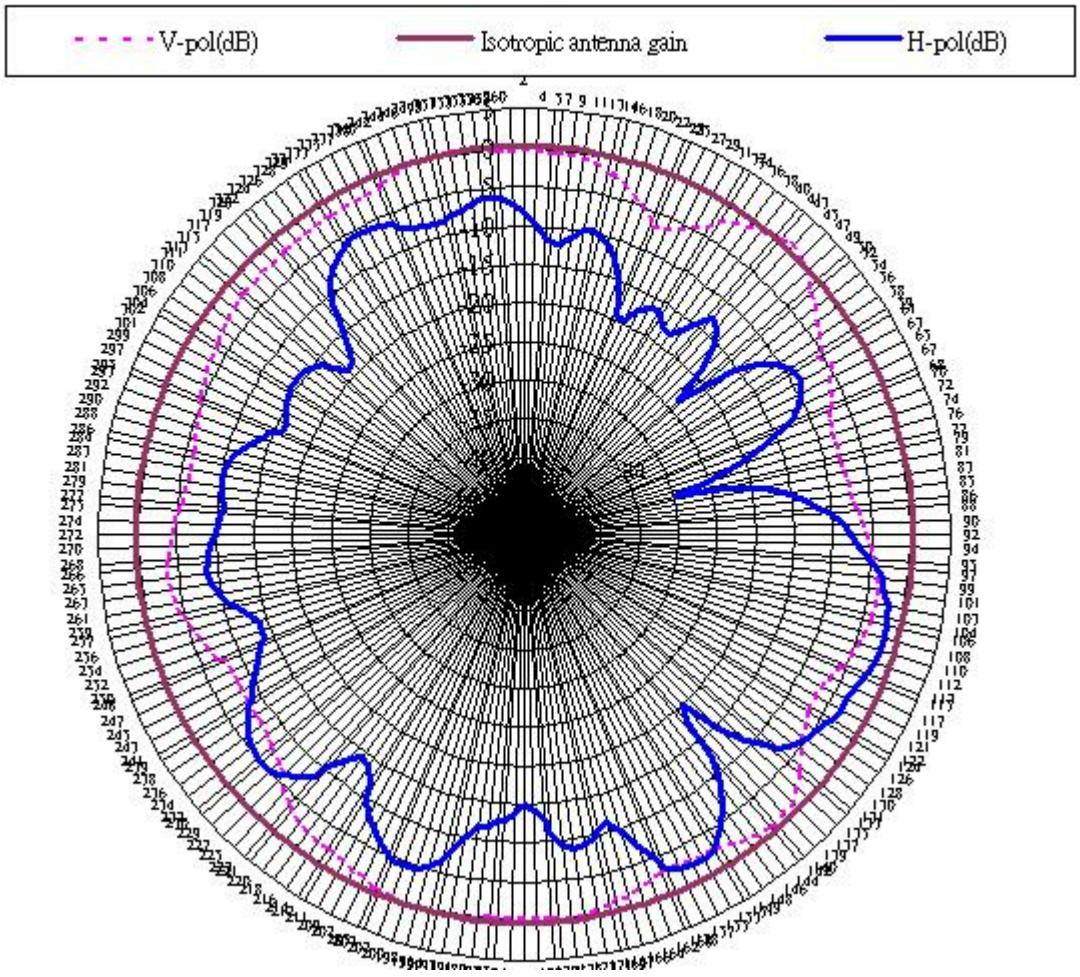

| | |
|---|---|
| **Center Frquency** | **2400MHz** |
| **Horizontal (dBi) Peak** | **-0.35** |
| **Vertical (dBi) Peak** | **-1.05** |
| **Horz + Vert (dBi) Peak** | **-0.34** |

## Main antenna -@2.45GHz



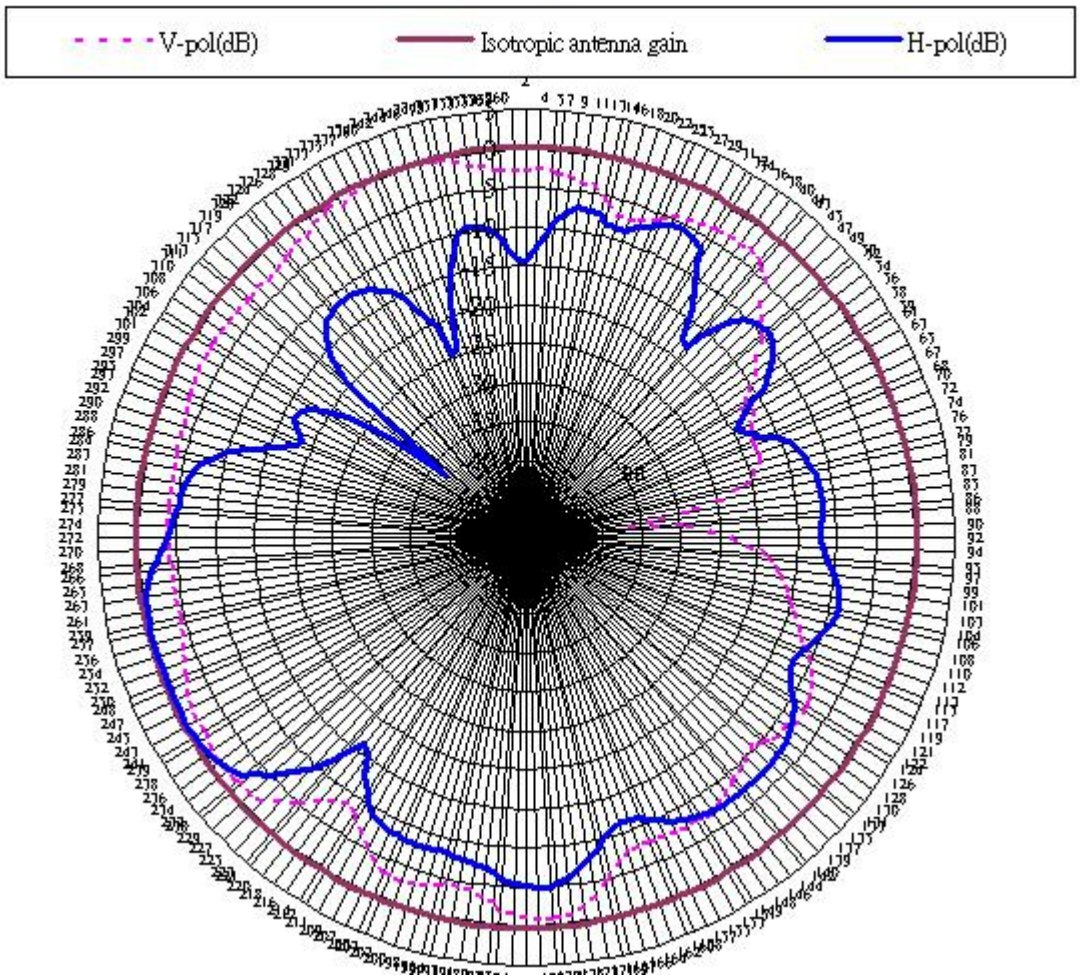

| | |
|---|---|
| **Center Frquency** | **2450MHz** |
| **Horizontal (dBi) Peak** | **-0.561** |
| **Vertical (dBi) Peak** | **-0.21** |
| **Horz + Vert (dBi) Peak** | **-0.31** |

## Main antenna -@2.5GHz



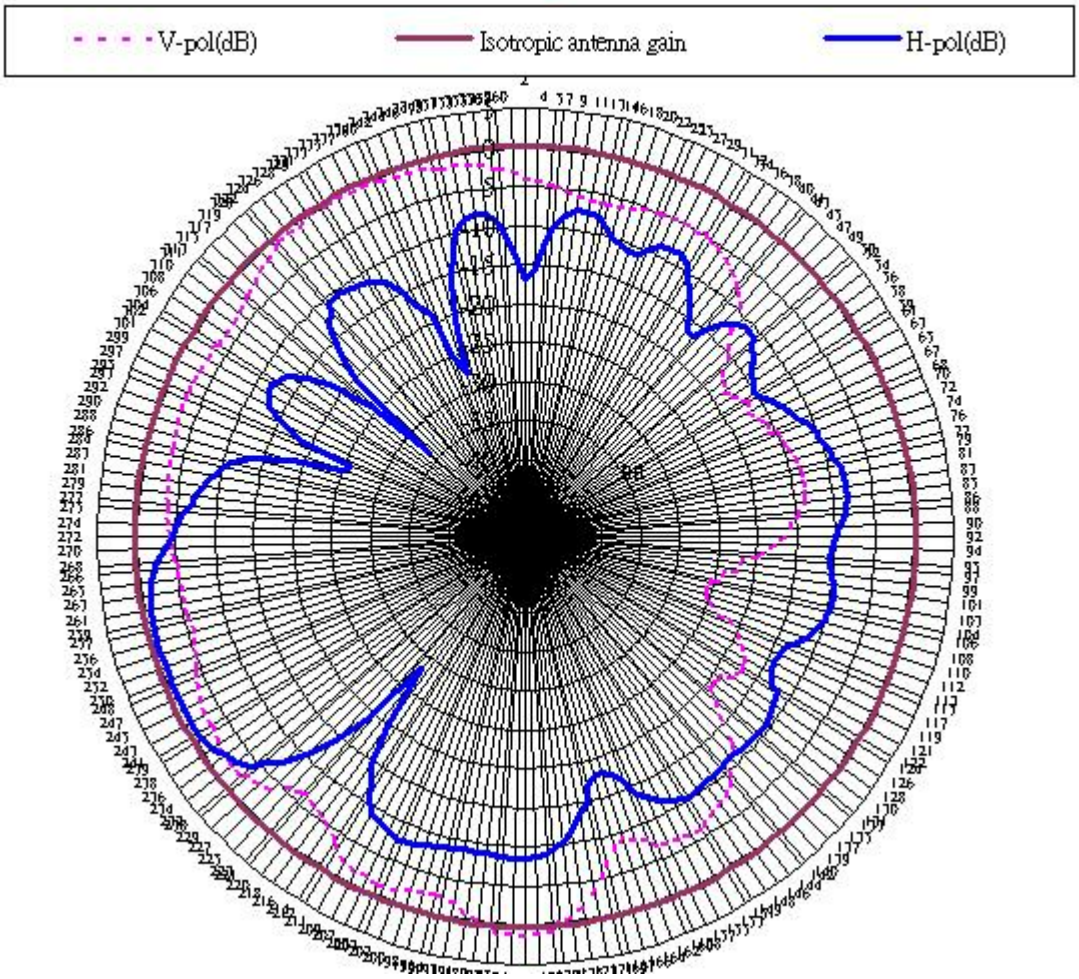

| | |
|---|---|
| **Center Frquency** | **2500MHz** |
| **Horizontal (dBi) Peak** | **0.86** |
| **Vertical (dBi) Peak** | **-1.67** |
| **Horz + Vert (dBi) Peak** | **-0.2** |

## AUX antenna -@2.4GHz



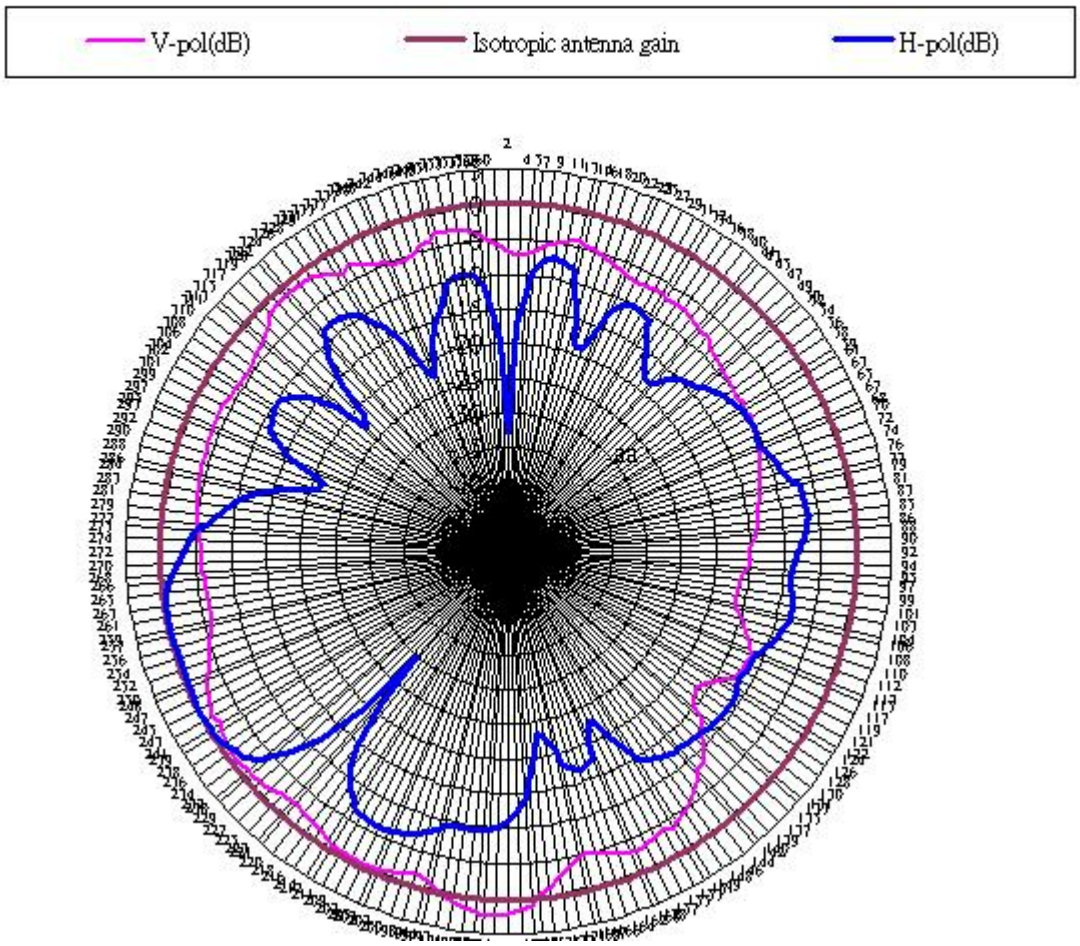

| | |
|---|---|
| **Center Frquency** | **2400MHz** |
| **Horizontal (dBi) Peak** | **-0.23** |
| **Vertical (dBi) Peak** | **0.12** |
| **Horz + Vert (dBi) Peak** | **2.01** |

## AUX antenna -@2.45GHz




| | |
|---|---|
| **Center Frquency** | **2450MHz** |
| **Horizontal (dBi) Peak** | **-0.83** |
| **Vertical (dBi) Peak** | **1.31** |
| **Horz + Vert (dBi) Peak** | **1.52** |

# AUX antenna -@2.5GHz




| | |
|---|---|
| **Center Frquency** | **2500MHz** |
| **Horizontal (dBi) Peak** | **0.01** |
| **Vertical (dBi) Peak** | **2.43** |
| **Horz + Vert (dBi) Peak** | **2.48** |