

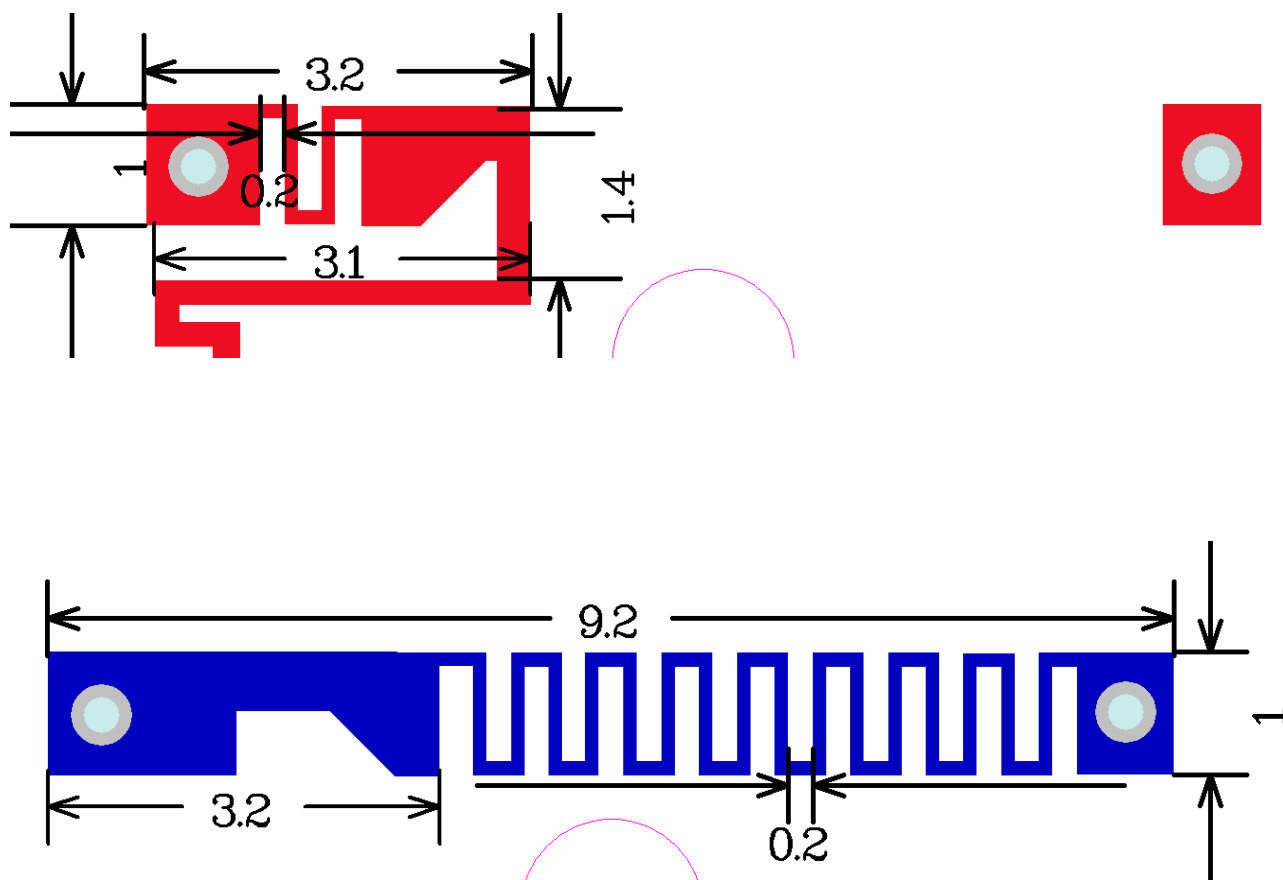
# Antenna Specification

## Specifications

### Summary

| ITEM                 | SPEC.            |           |
|----------------------|------------------|-----------|
| Model Name           | IBM 2.4 GHz      |           |
| Center Frequency     | 2402MHz          | -2.52 dBi |
|                      | 2441 MHz         | -2.36 dBi |
|                      | 2480 MHz         | -2.85 dBi |
| MAX. GAIN            | -2.36 dBi        |           |
| Polarization         | Horizontal       |           |
| Azimuth Beam Pattern | Omni-directional |           |
| Impedance            | 50 $\Omega$      |           |
|                      |                  |           |

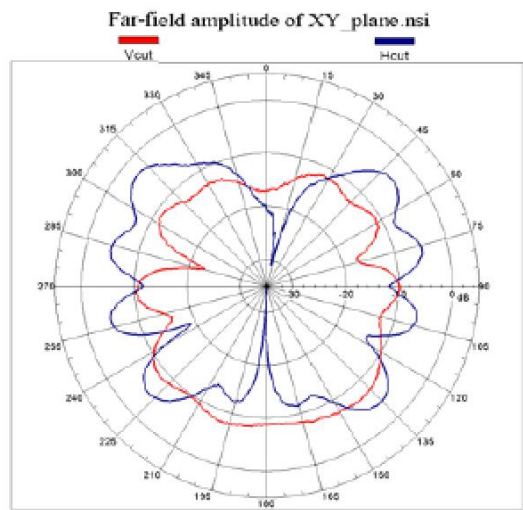
Antenna Photo & Length(mm)



1. Main antenna : 2402 MHz

1.1 Horizontal

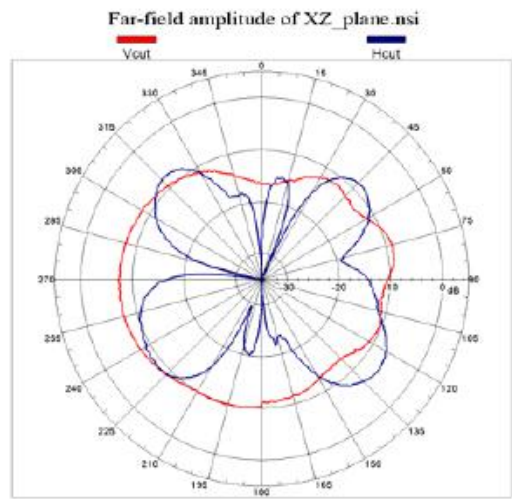
◆XY-plane



|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -3.01     | -8.82     |
| V cut | -7.19     | -11.29    |
| Total | -2.52     | -6.53     |

1.2 Vertical

◆XZ-plane

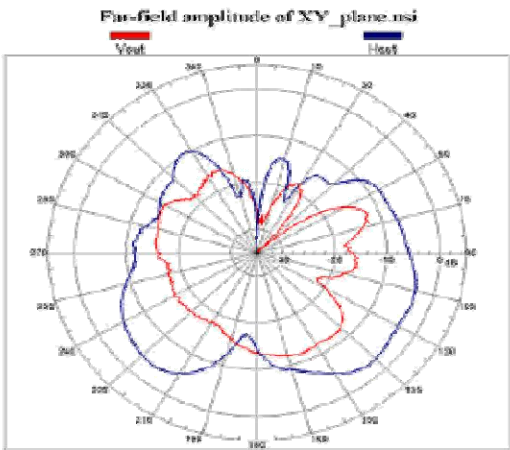


|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -6.44     | -13.24    |
| V cut | -7.34     | -10.57    |
| Total | -5.38     | -8.35     |

2. Main antenna : 2441 MHz

2.1 Horizontal

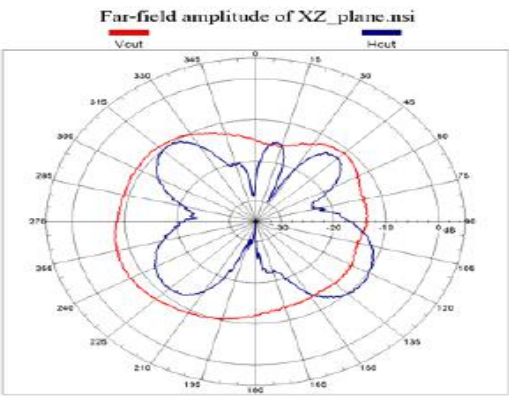
◆XY-plane



|       |           |           |
|-------|-----------|-----------|
|       | Peak gain | Avg. gain |
| H cut | -2.89     | -8.89     |
| V cut | -11.81    | -16.63    |
| Total | -2.36     | -8.05     |

2.2 Vertica

◆XZ-plane

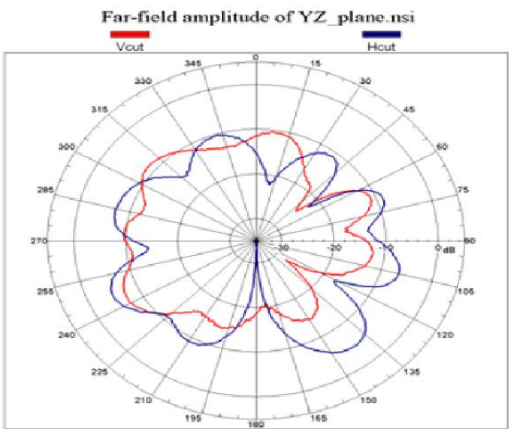


|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -9.56     | -15.85    |
| V cut | -7.29     | -11.21    |
| Total | -6.27     | -9.66     |

3. Main antenna : 2480 MHz

3.1 Horizontal

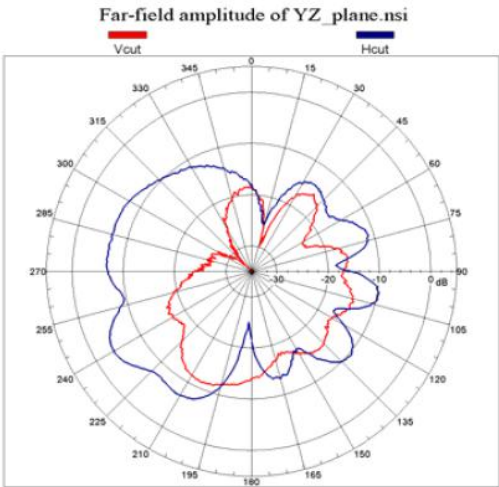
◆YZ-plane



|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -4.74     | -10.75    |
| V cut | -7.09     | -13.11    |
| Total | -2.85     | -8.49     |

### 3.2 Vertical

#### ◆YZ-plane



|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -3.99     | -11.25    |
| V cut | -11.31    | -18.08    |
| Total | -3.79     | -10.11    |

### 4. Result

| Center Frequency |   | Maximum Ant Gain |
|------------------|---|------------------|
| 2402MHz          | H | -2.52 dBi        |
|                  | V | -5.38 dBi        |
| 2441 MHz         | H | -2.36 dBi        |
|                  | V | -6.27 dBi        |
| 2480 MHz         | H | -2.85 dBi        |
|                  | V | -3.79 dBi        |