

Antenna Test Report

1. General Description

Antenna Type: Printed on PCB

Manufacturer: Formosa21 Inc.

Model No.: RF612; RF612x; RF612-xxx (x=0~9, A~Z)-Antenna

The antenna is integrated on the main PCB for 2.4GHz frequency range application.

2. Specification

| | |
|-----------------------|-----------------------------|
| Unit | 1 |
| Frequency Range (MHz) | 2400 –2483.5 |
| Max.Gain | + 1.1 dBi |
| VSWR | 2.0:1 max |
| Polarization | Linear Vertical |
| HPBW/H | Please see attached table 1 |
| HPBW/E | Please see attached table 1 |
| Temperature | 30°C to +75°C |
| Humidity | 5%to95% RH |

3. Antenna Performance

3-1 Antenna Gain

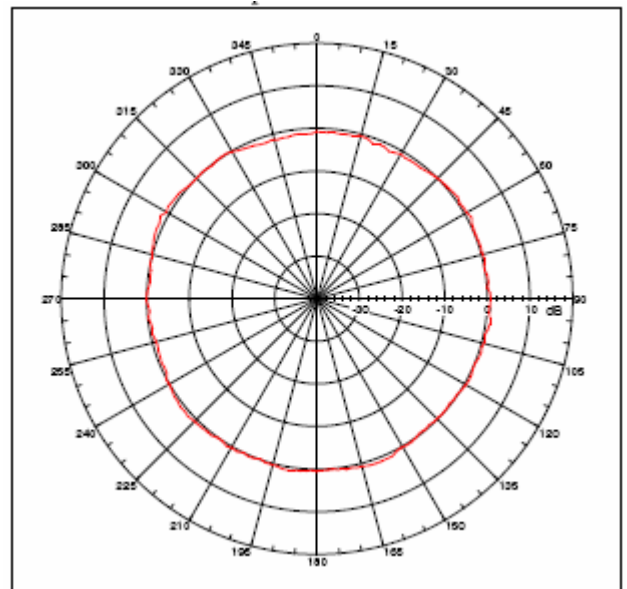
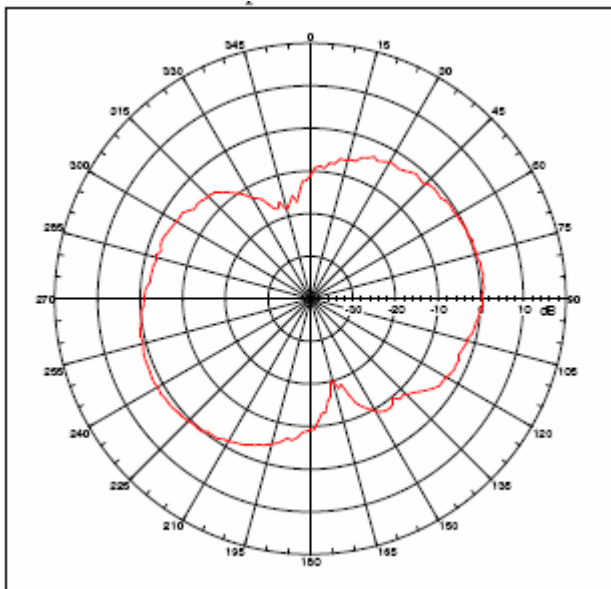
| Antenna Sample | | | | | | |
|----------------|-----------|-----------|------------|------------|-----------|-----------|
| Data Freg. | Peak Gain | | Avg. | | Gain | |
| | E | H | E | H | E | H |
| 2.4 GHz | 1.011 dBi | 1.086dBi | -3.270 dBi | -1.021 dBi | 64.28 deg | Not Found |
| 2.45 GHz | 1.114dBi | 1.027 dBi | -3.124 dBi | -1.424 dBi | 64.51 deg | Not Found |
| 2.5 GHz | 1.069dBi | 1.057 dBi | -3.068dBi | -1.365dBi | 57.71 deg | Not Found |

3-2 Transmitter Antenna Pattern

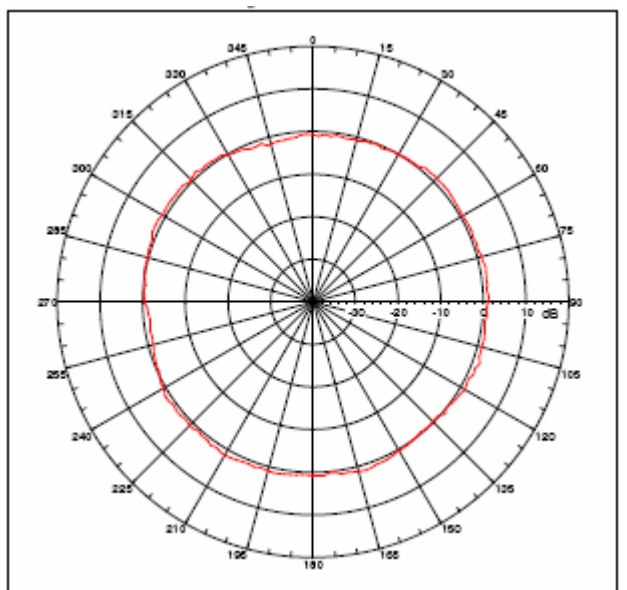
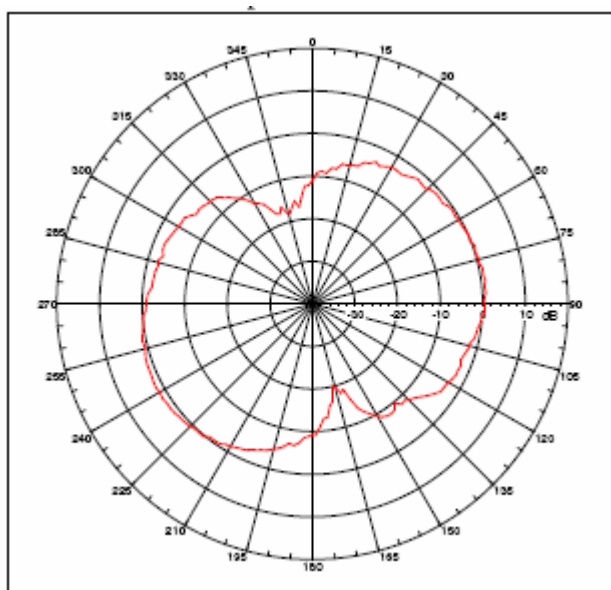
E-Plane

H-Plane

2.4GHz



2.45GHz



2.5GHz

