



**Product Name:** Flexible PCB Antenna

**Part Number:** FP-L26-01

**Features:**

- Support 5G NR LTE 617-960MHz, 1710-2690MHz, 3300-3800MHz, 5150-5850MHz
- Flexible PCB with Double-Sided Adhesive
- IPEX MHFI Connector
- Cable: 1.37 mm Mini-Coax
- Cable Length: 100 mm
- Customizable Cables and Connectors
- RoHS & REACH Compliant

**Applications:**

- IoT Application
- Portable Device Application

# Flexible PCB Antenna

**MODEL: FP-L26**

Version: Preliminary

## I. Specifications:

| Items                      | Specifications              |                 |                 |                   |                   |                   |                   |                   |                          |
|----------------------------|-----------------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Electrical Characteristics |                             |                 |                 |                   |                   |                   |                   |                   |                          |
| Application Bands          | 5G NR<br>Band 71            | LTE 700         | GSM<br>850/900  | DCS               | PCS               | UMTS1             | LTE2600           | 5G NR<br>Band     | LTE5200<br>Wi-Fi<br>5800 |
| Frequencies (MHz)          | 617<br>~<br>698             | 698<br>~<br>824 | 824<br>~<br>960 | 1710<br>~<br>1880 | 1850<br>~<br>1990 | 1920<br>~<br>2170 | 2300<br>~<br>2690 | 3300<br>~<br>3800 | 5150<br>~<br>5850        |
| Efficiency (%)             | 58.01                       | 60.46           | 51.28           | 65.56             | 60.41             | 61.53             | 69.69             | 49.39             | 41.50                    |
| Average Gain (dBi)         | -2.37                       | -2.19           | -2.90           | -1.83             | -2.19             | -2.11             | -1.57             | -3.06             | -3.82                    |
| Peak Gain (dBi)            | 3.86                        | 4.10            | 4.39            | 4.59              | 6.04              | 6.95              | 7.07              | 5.70              | 5.87                     |
| V.S.W.R                    | < 4                         |                 |                 |                   |                   |                   |                   |                   |                          |
| Return Loss (dB)           | < -5                        |                 |                 |                   |                   |                   |                   |                   |                          |
| Impedance (Ω)              | 50                          |                 |                 |                   |                   |                   |                   |                   |                          |
| Polarization               | Linear                      |                 |                 |                   |                   |                   |                   |                   |                          |
| Physical Condition         |                             |                 |                 |                   |                   |                   |                   |                   |                          |
| Dimensions (mm)            | 50.0(L) x 20.0(W) x 0.25(T) |                 |                 |                   |                   |                   |                   |                   |                          |
| Connector                  | IPEX MHF I                  |                 |                 |                   |                   |                   |                   |                   |                          |
| Cable                      | 1.37 mm Mini-Coax           |                 |                 |                   |                   |                   |                   |                   |                          |
| Cable Length (mm)          | 100                         |                 |                 |                   |                   |                   |                   |                   |                          |

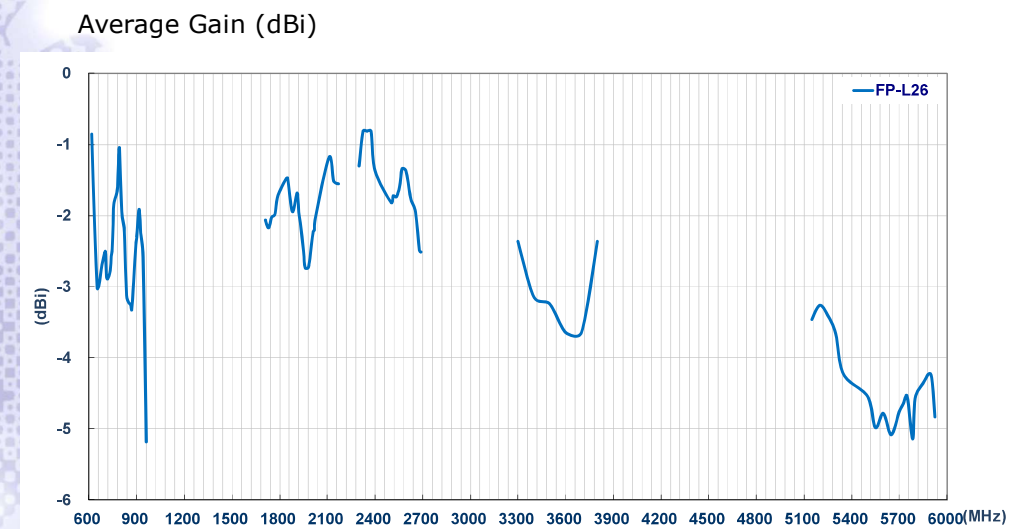
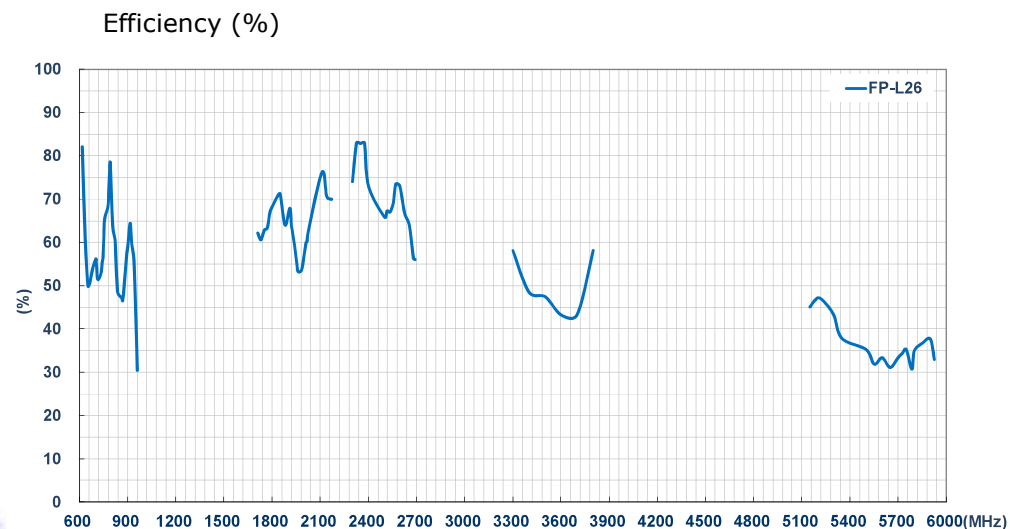
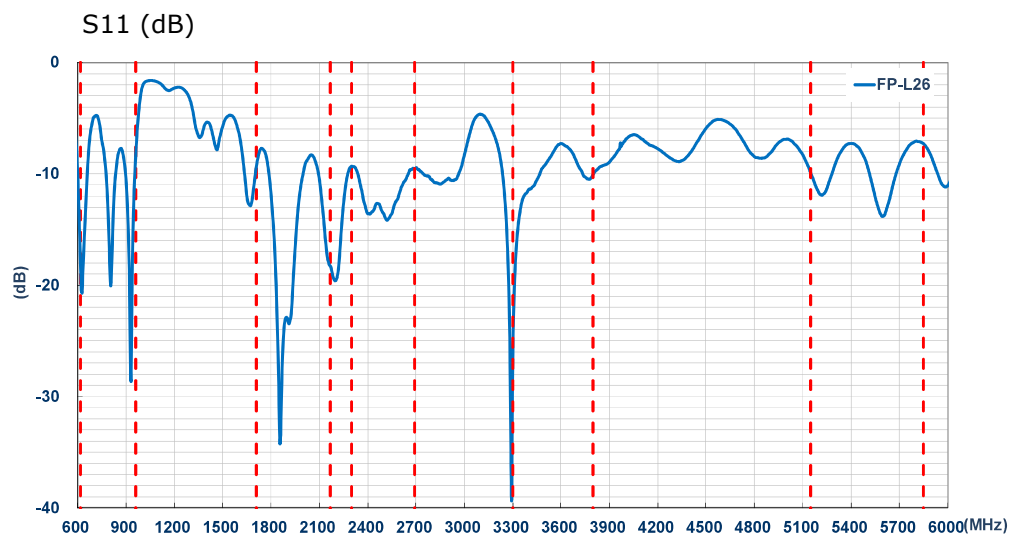
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| Environmental Conditions   |                    |
|----------------------------|--------------------|
| Operation Temperature (°C) | -40 ~ +85          |
| Storage Temperature (°C)   | -40 ~ +85          |
| Relative Humidity          | 95% non-condensing |

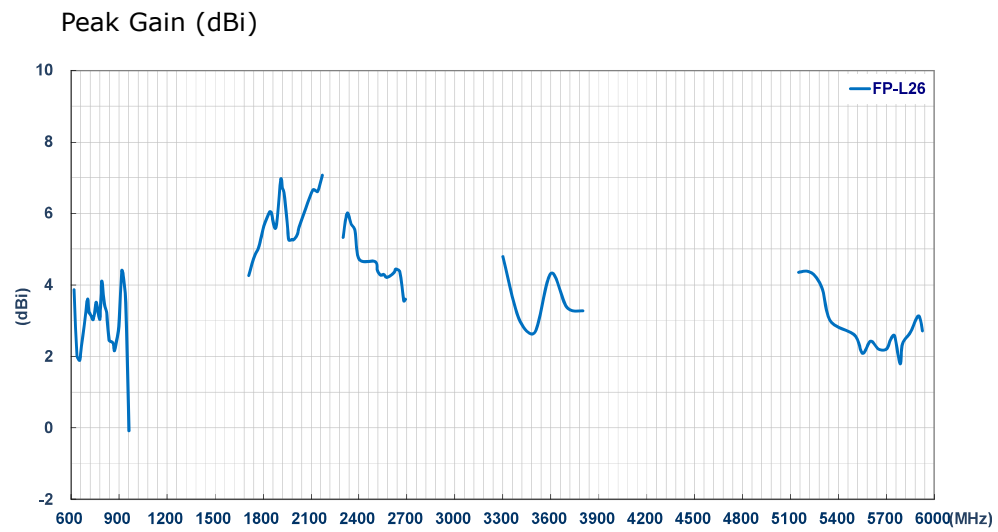
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## II. Antenna Technical Parameters:



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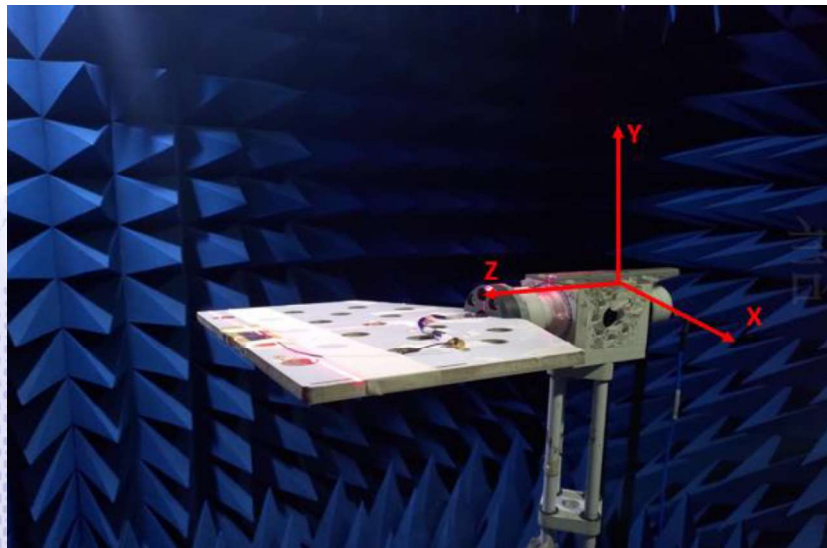


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### III. Antenna Radiation Pattern Measurement:

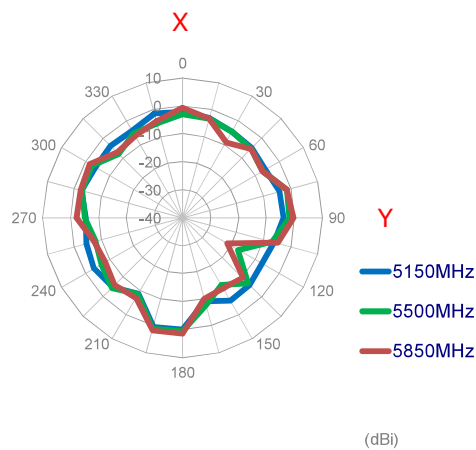
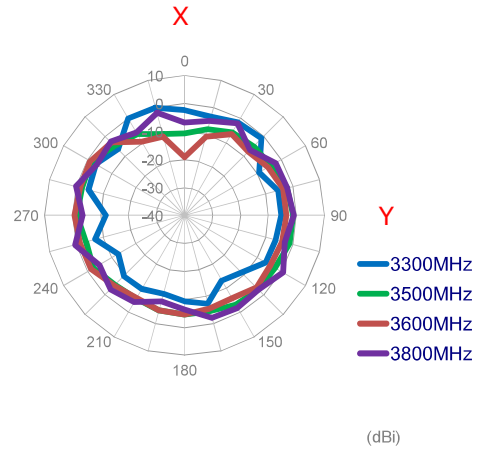
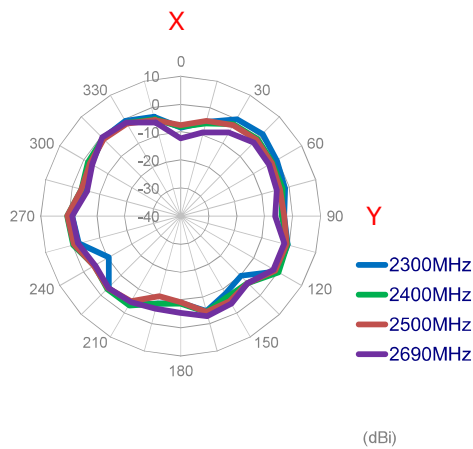
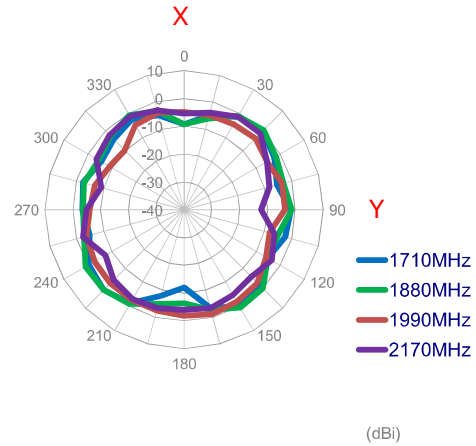
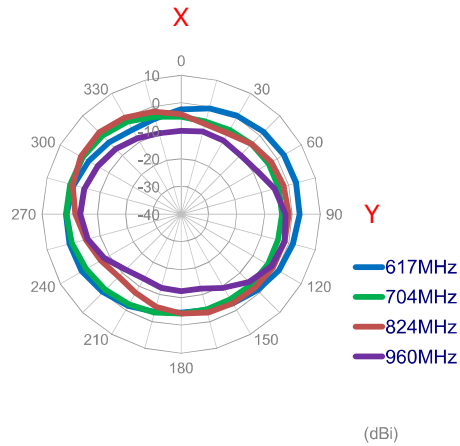
The antenna radiation patterns are measured in 3D Anechoic Chamber.

The measurement setup is as shown below,



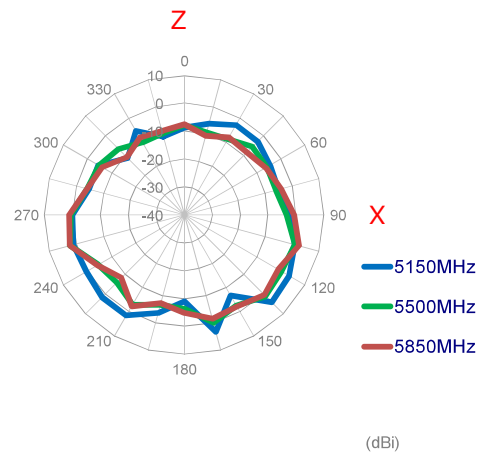
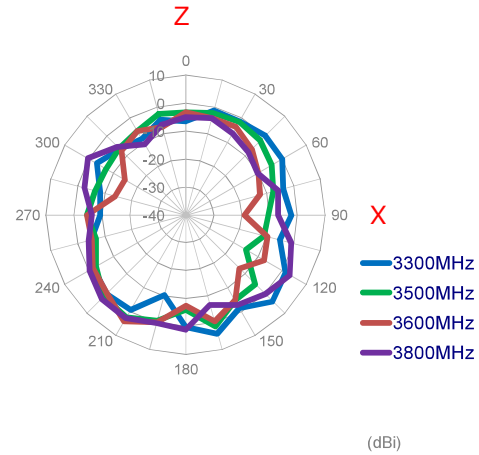
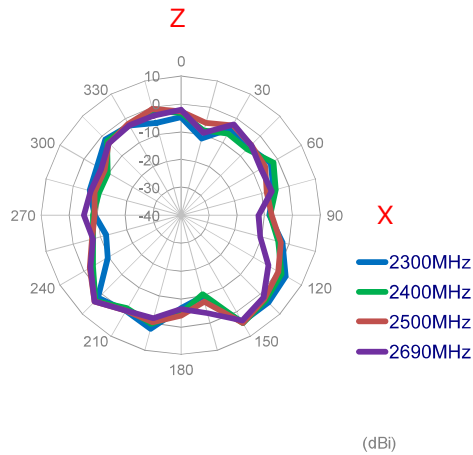
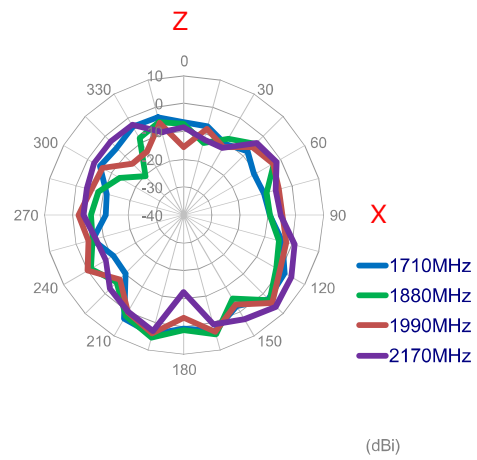
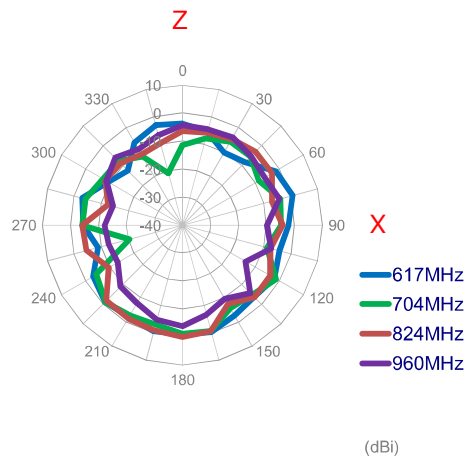
## IV. 2D Radiation Pattern:

### X-Y Plane



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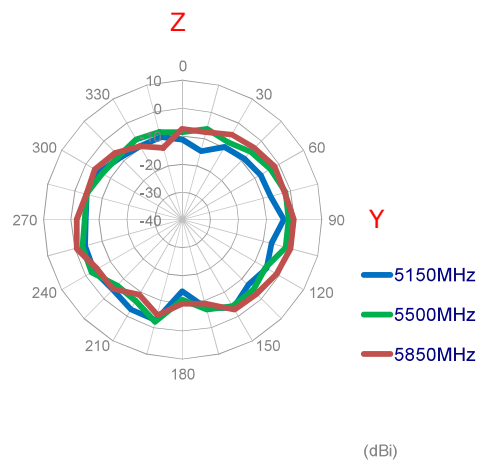
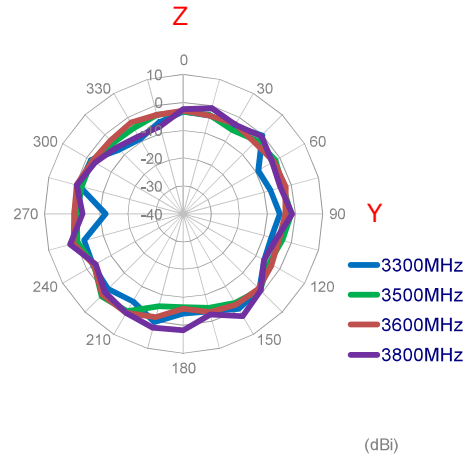
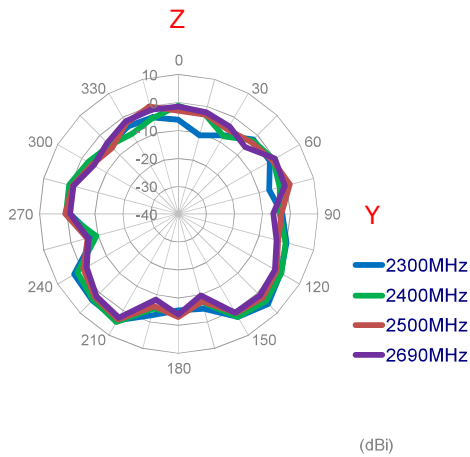
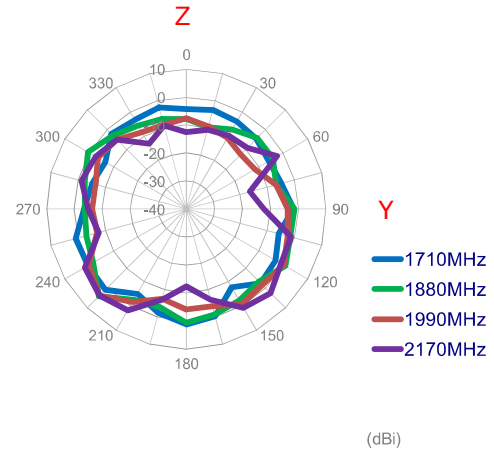
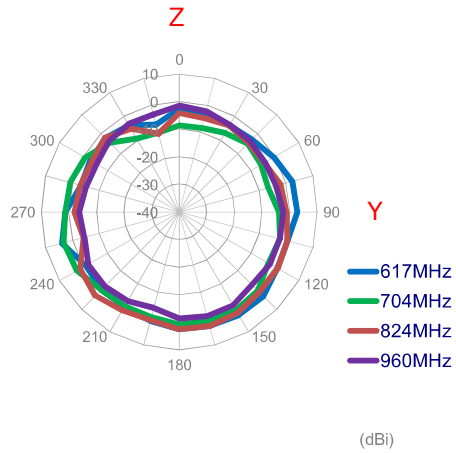
## X-Z Plane



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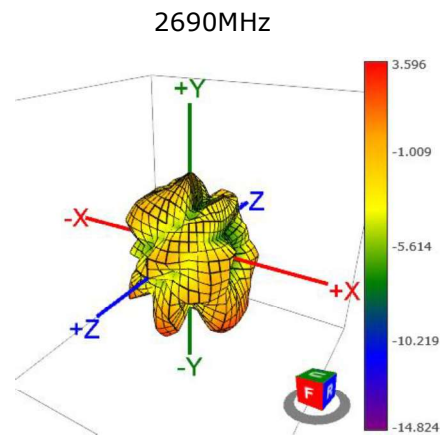
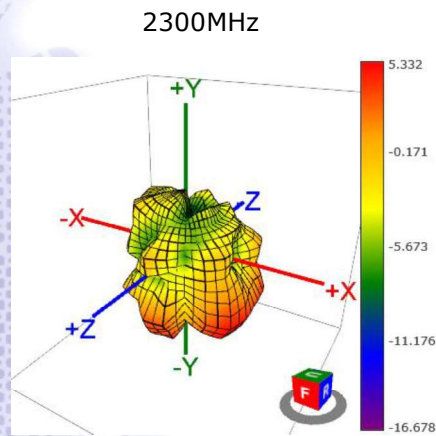
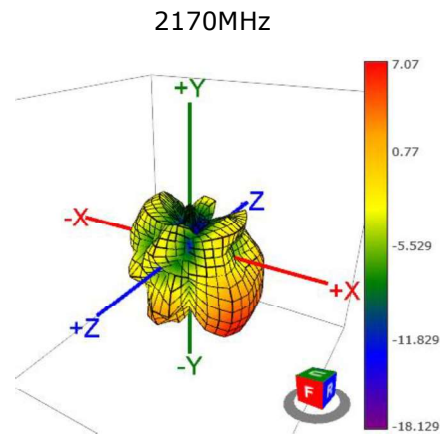
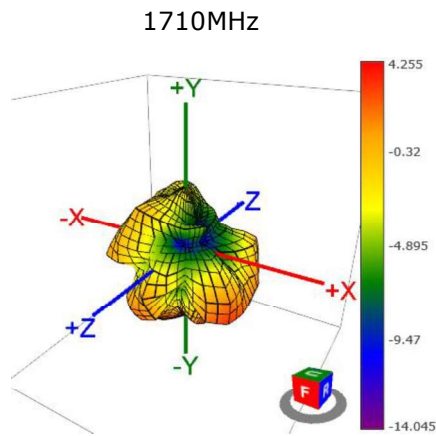
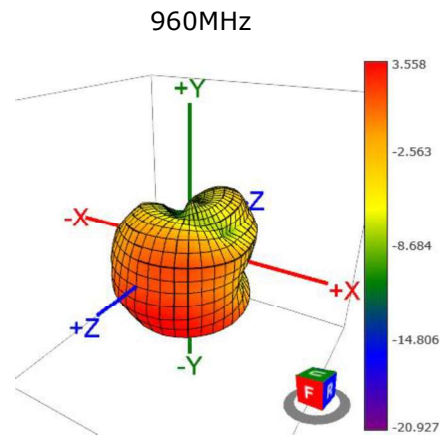
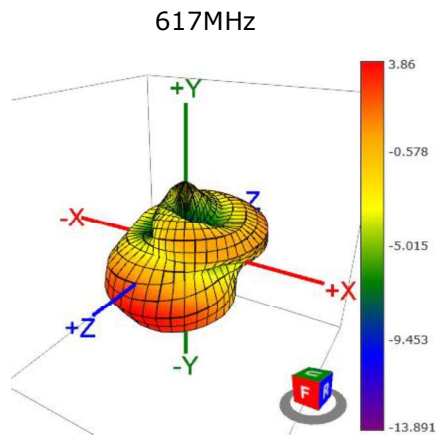
## Y-Z Plane



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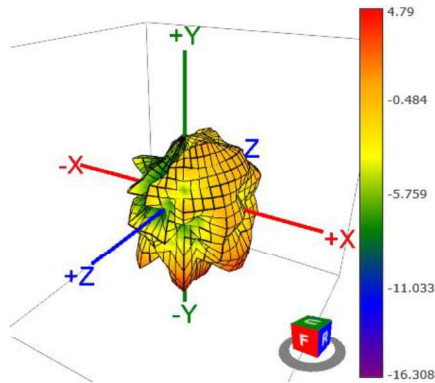


## V. 3D Radiation Pattern:

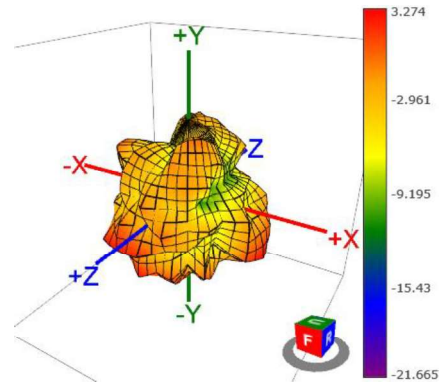


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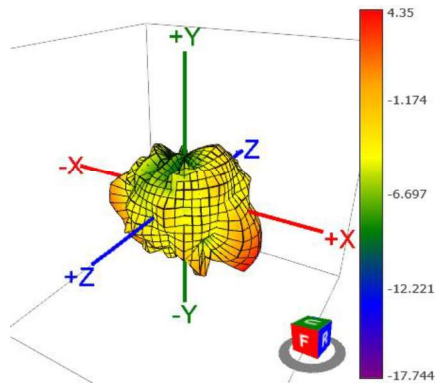
3300MHz



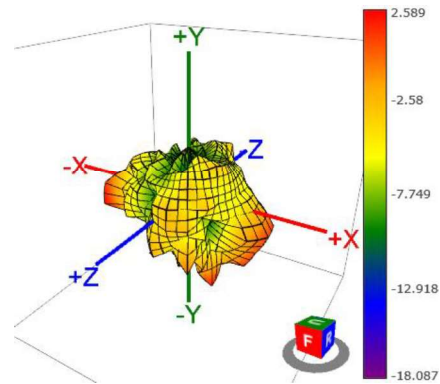
3800MHz



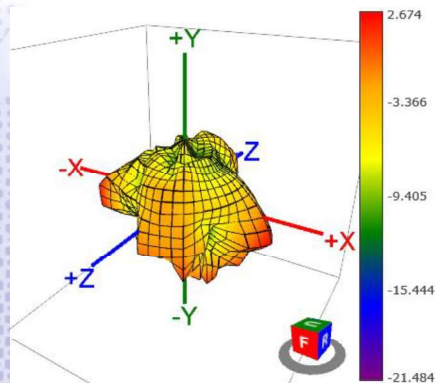
5150MHz



5500MHz

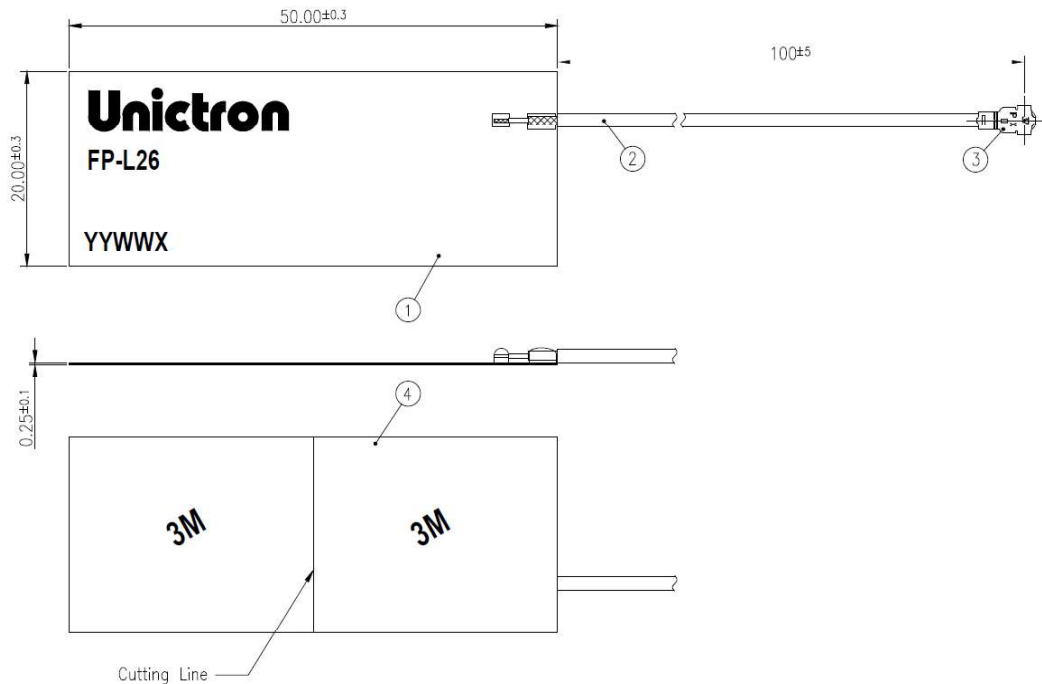


5850MHz



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## VI. Mechanical Drawing (Unit:mm):



Notes:  
 • IP Code : None.

| 4  | Adhesive                       | 3M 467        | Brown Liner | 1    |
|----|--------------------------------|---------------|-------------|------|
| 3  | IPEX Connector (20351-112R-37) | Brass         | Au Plated   | 1    |
| 2  | OD1.37 Coaxial Cable           | FEP           | Black       | 1    |
| 1  | FP-L26 FPCB                    | Polymer 0.25t | Black       | 1    |
| No | NAME                           | MATERIAL      | FINISH      | Q'TY |

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