

4G/LTE Flexible Printed Antenna

AFAC5867-S698

67.4 x 58.4 x 0.2 mm
RoHS/RoHS II Compliant
MSL - 1

FEATURES

- Operates in 698-2700 MHz
- Linear polarization
- Low VSWR
- Low profile
- Omni-directional pattern
- IPEX connector with cable

APPLICATIONS

- Cellular
- Transportation
- Industrial wearable
- Smart city
- Smart agriculture
- Home automation

Electrical Specifications

| Parameters | Min. | Typ. | Max. | Units | Note |
|--------------------|------|-------------------|------|----------|------|
| Frequency Range | | 698~960/1710~2690 | | MHz | |
| VSWR | | | 2.0 | | |
| Polarization Model | | Linear | | | |
| Impedance | | 50 | | Ω | |
| Gain | | 2.0 | | dBi | |

Mechanical Characteristics

| Parameters | Description |
|----------------|----------------------|
| Connector | IPEX |
| Cable Type | RF1.13 |
| Mounting | Embedded |
| FPC Dimensions | 67.4 x 58.4 x 0.2 mm |

Environmental Characteristics

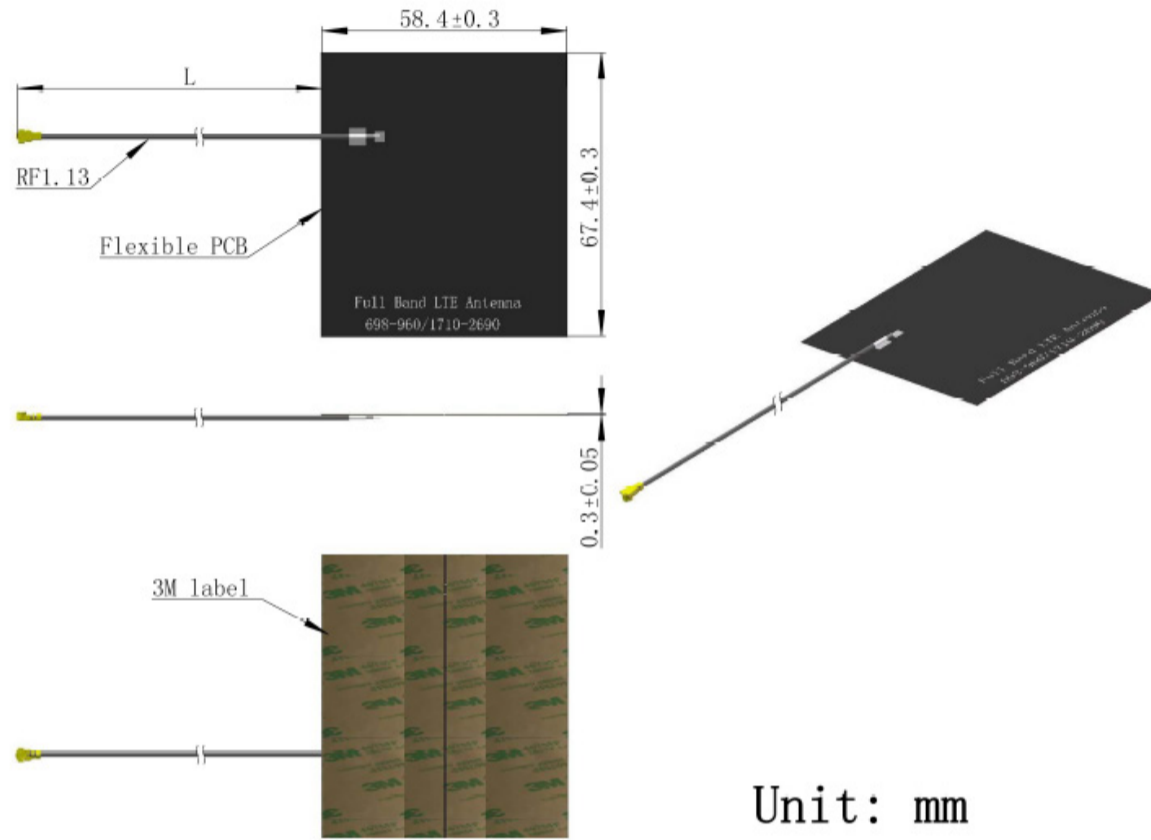
| Parameters | Note |
|-----------------------|---|
| Operating Temperature | -40°C to +85°C |
| Vibration | 10 to 55Hz with 1.5mm amplitude 2 hours |
| ROHS Compliant | Yes |
| MSL Level | 1 |

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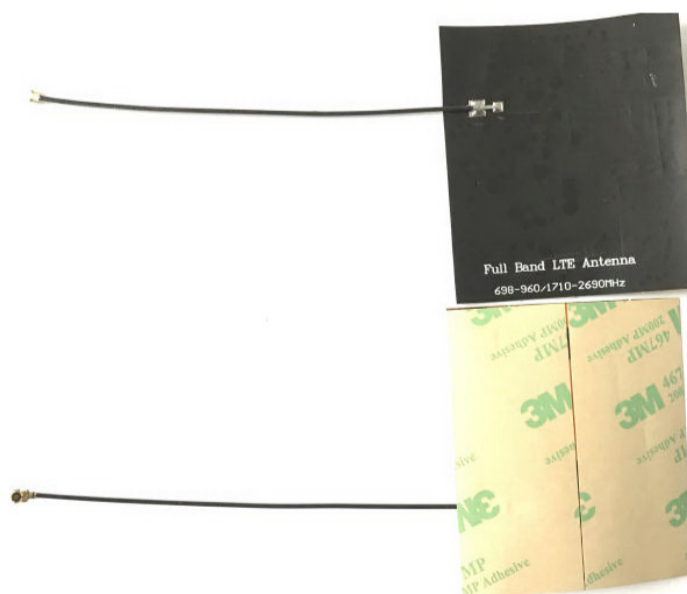
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Dimensions



Product Image

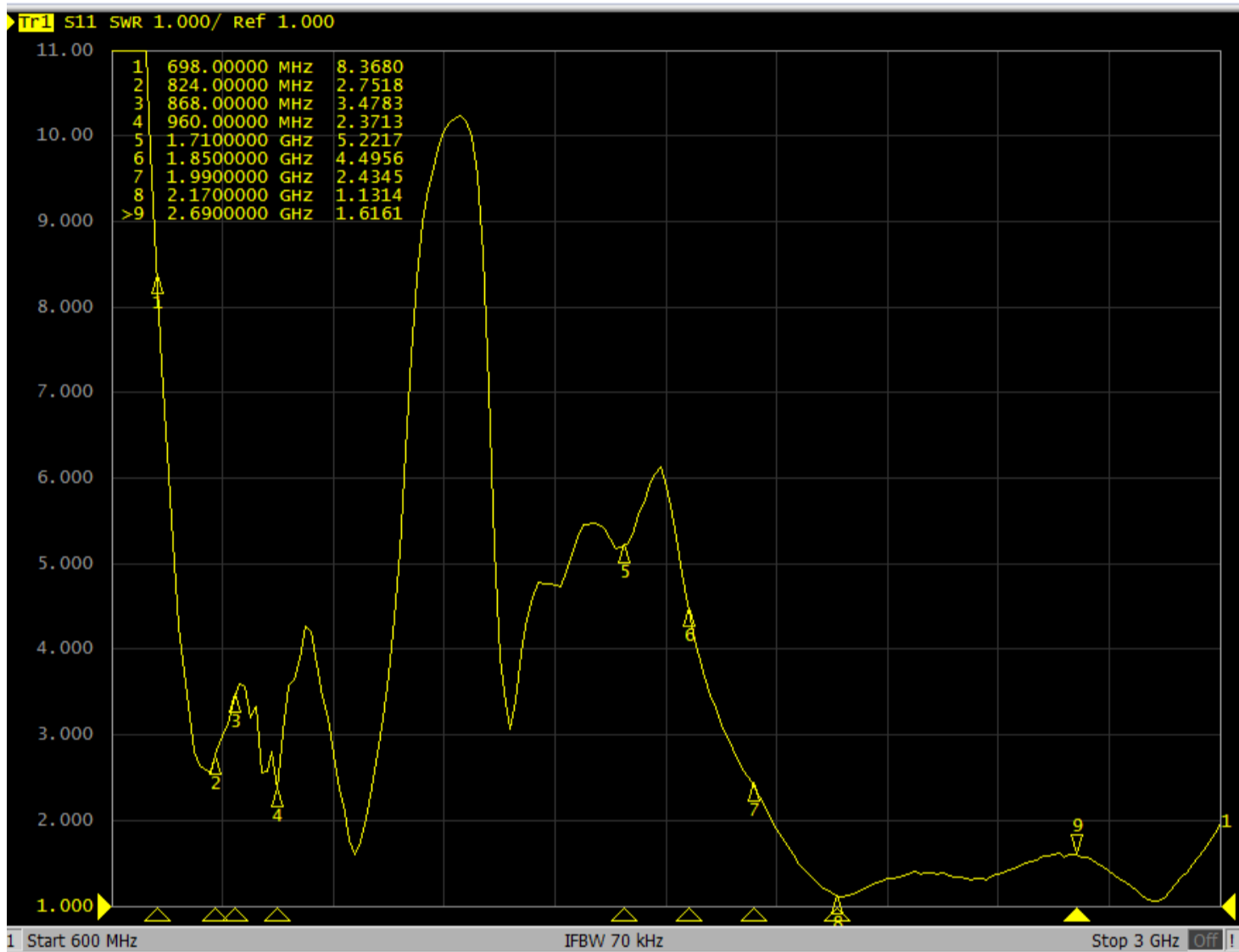


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VSWR

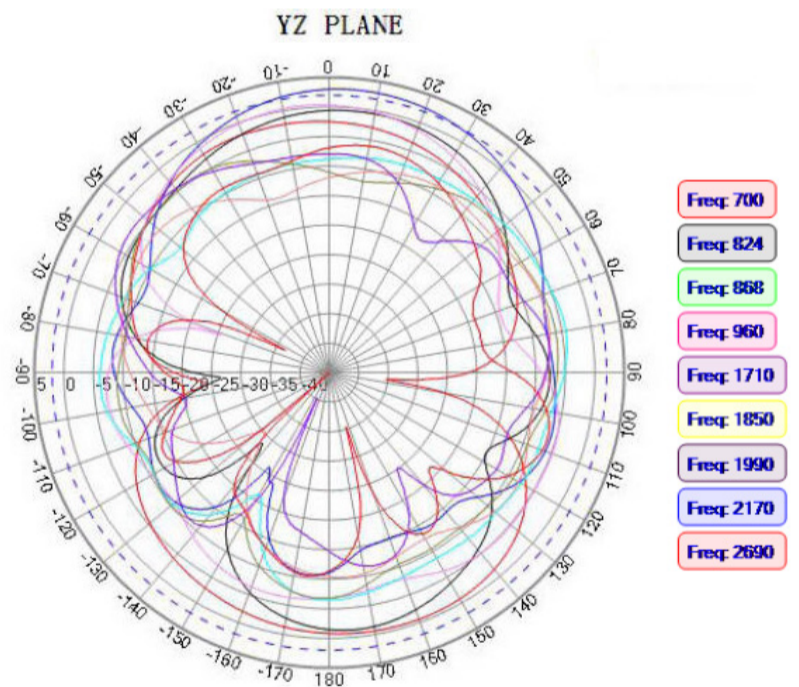
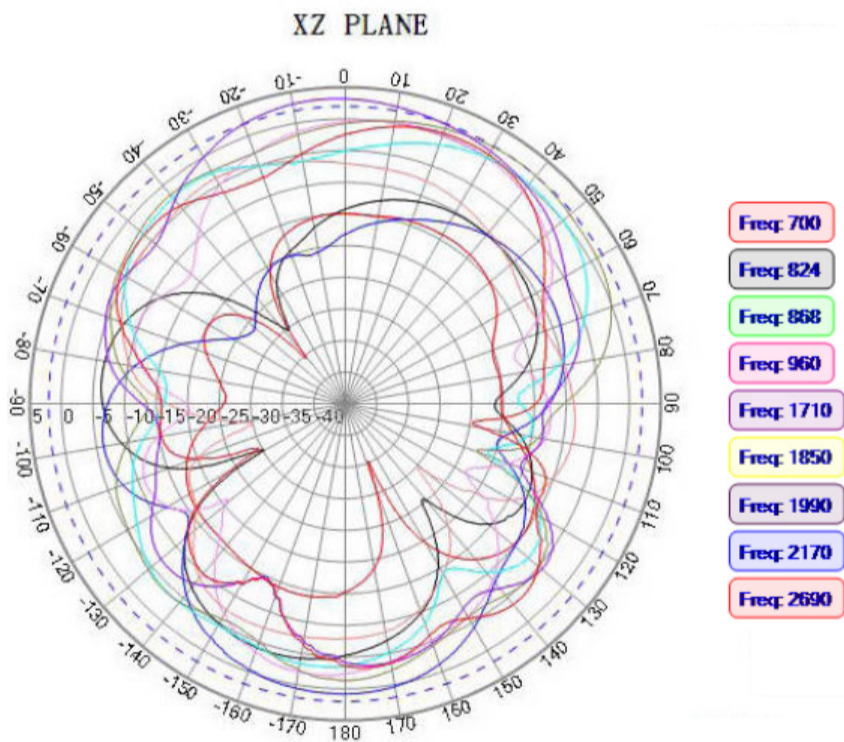
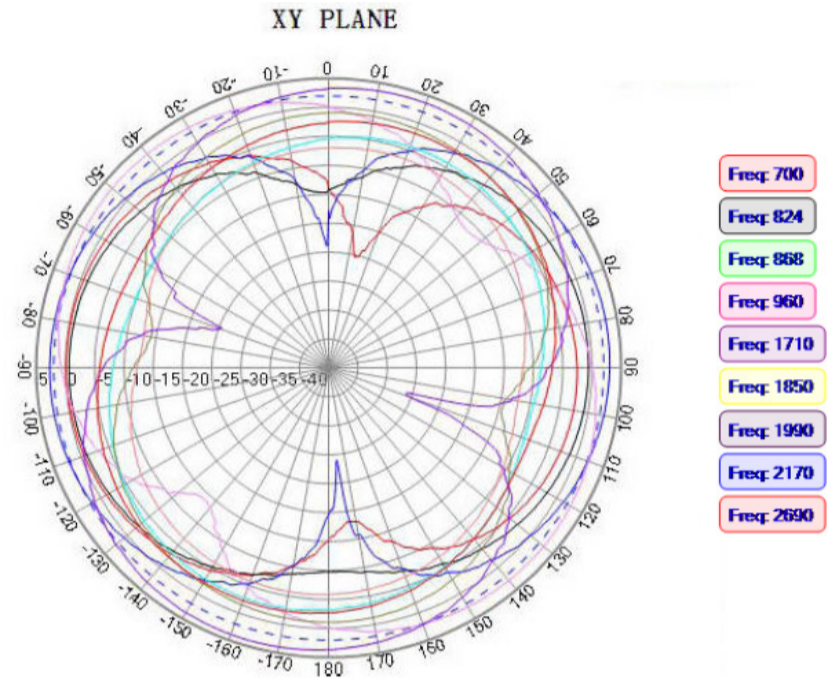
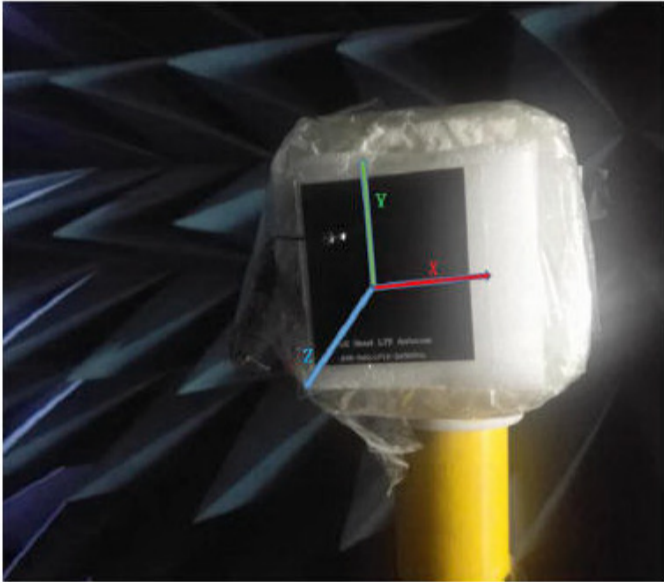


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Radiation Patterns



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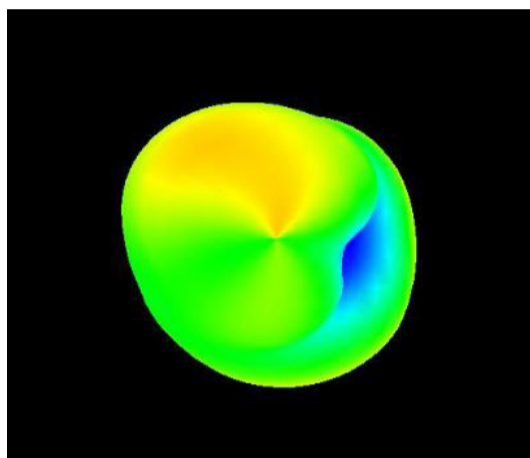
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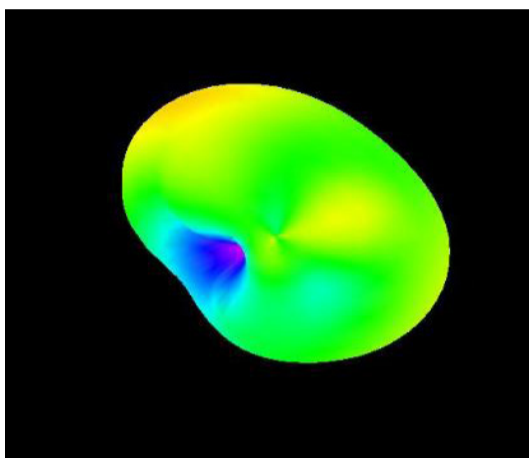
Radiation Patterns

3D-Pattern

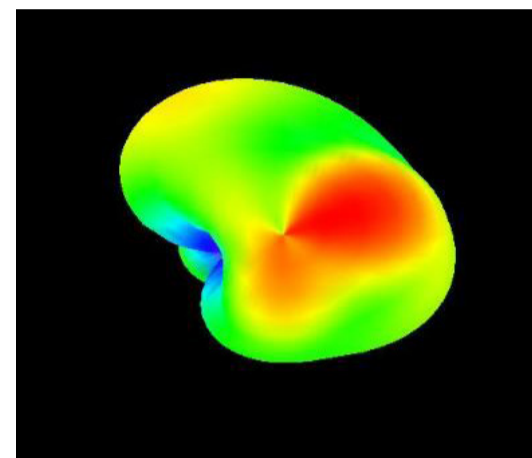
698 MHZ



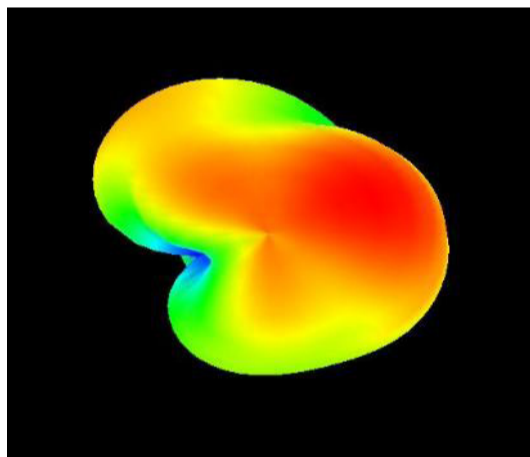
824 MHZ



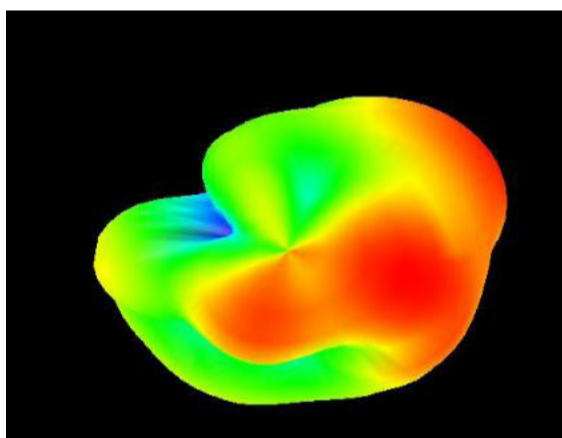
868 MHZ



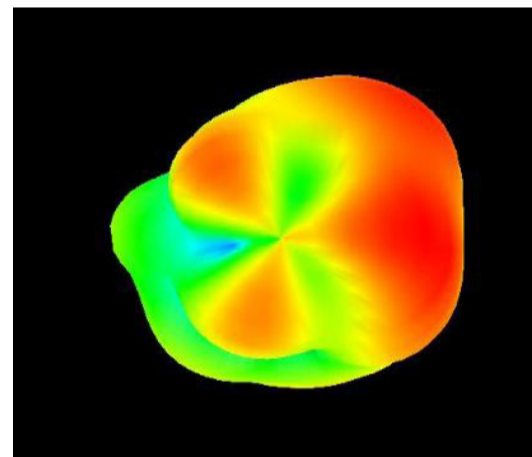
960 MHZ



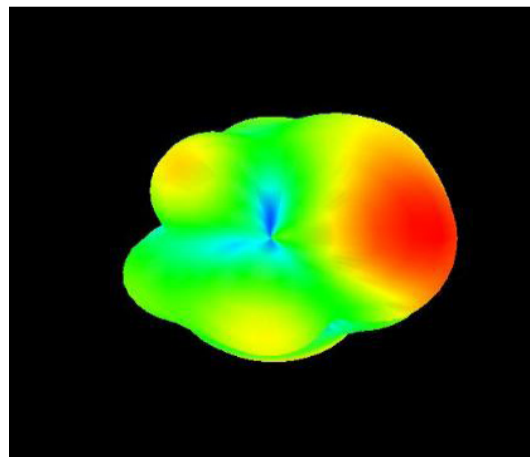
1710 MHZ



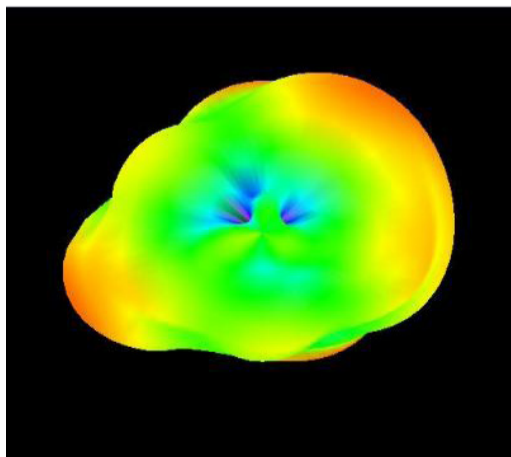
1850 MHZ



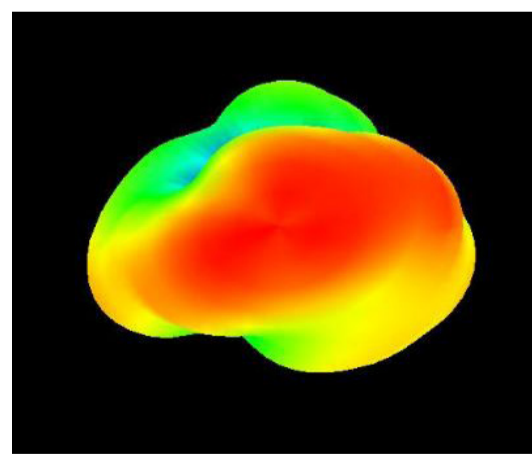
1990 MHZ



2170 MHZ



2690 MHZ



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Gain and Efficiency

| Frequency (MHz) | Efficiency | Gain (dBi) |
|-----------------|------------|------------|
| 698 | 0.39 | -10.11 |
| 824 | 0.4 | -3.96 |
| 868 | 0.46 | 0.82 |
| 960 | 0.44 | 0.3 |
| 1710 | 0.4 | -3.85 |
| 1850 | 0.43 | 0.33 |
| 1990 | 0.53 | 2.52 |
| 2170 | 0.57 | 3.1 |
| 2690 | 0.45 | 1.59 |

Packaging

Each 37 x 36 x 17 cm size carton includes 1,000 pcs antenna, weighs 8 kg



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