# 4G Magnetic Loaded Coil Antenna

## FEATURES & BENEFITS

- Monopole Antenna, Ground (Cable) Plane dependent
- Small Suction design to meet the magnetic suction installation
- High gain, low loss cable

## APPLICATIONS

- Outdoor Events and Activities
- Vehicle Connectivity
- Remote Work and Temporary Sites
- Public Safety and Emergency Response
- Mobile Homes and Boats
- Temporary Connectivity Solutions such as disaster recovery, temporary offices, or pop-up events.

## ORDER INFORMATION

| | |
|---|---|
| Product Name | 4G Magnetic Loaded Coil Antenna |
| Part Number | M04-0105290R0A |
| Dimensions | Ø29.8 x 208 mm |
| Weight | 33.8 g |
| Color | Black |
| Mounting | Magnetic mount |
| Antenna Cable | Default SMA Male RF RG174 black coaxial cable ( Ø2.8 x1500 mm) , customizable. |

## REFERENCE GUIDE

| | | |
|---|---|---|
| Technical Features (MHz) | 824-960 | 1710-1690 |
| Max VSWR | 4.0:1 | 2.0:1 |
| Max Efficiency | 35.92% | |
| Peak Gain | 1.76dBi | |
| Radiation Pattern | Omnidirectional | |
| Polarization | Linear | |
| Input Impedance | 50 Ω | |
| Operating Temperature | -40ºC to +85ºC | |
| Storage Temperature | -40ºC to +85ºC | |
| Relative Humidity | 10 to 70% | |
| Material Substance Compliance | RoHS Compliant | |

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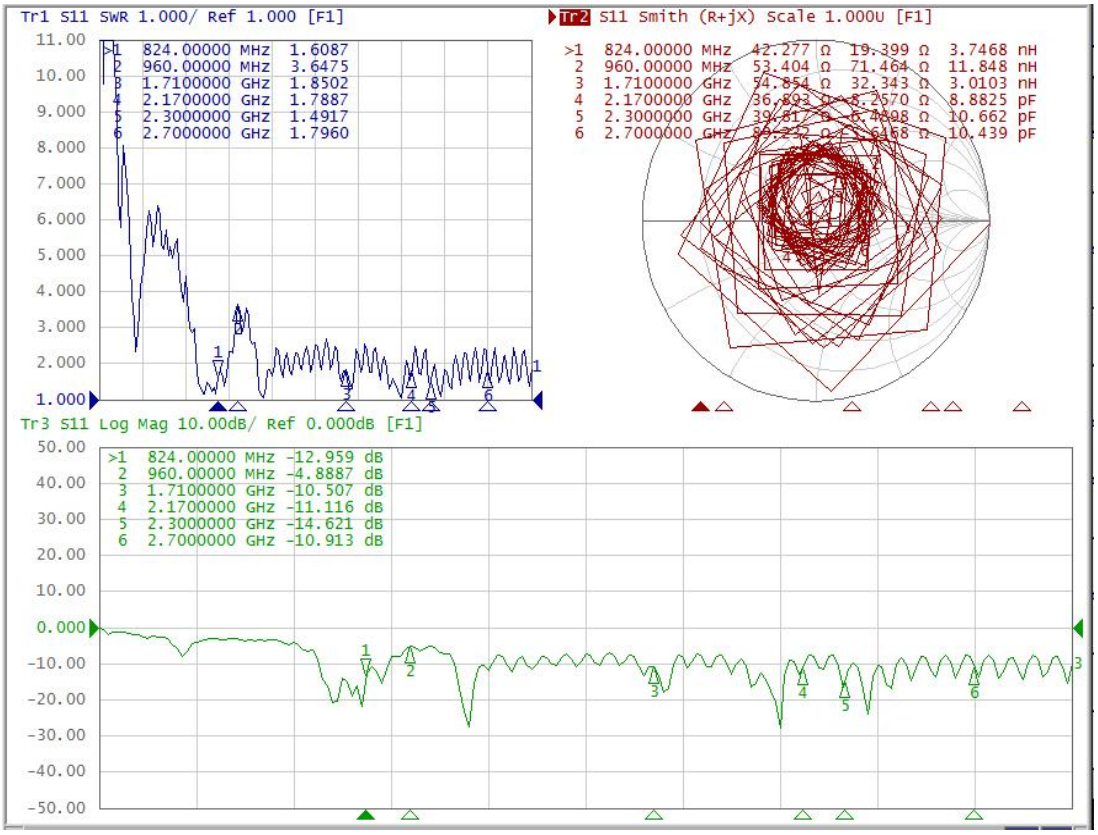
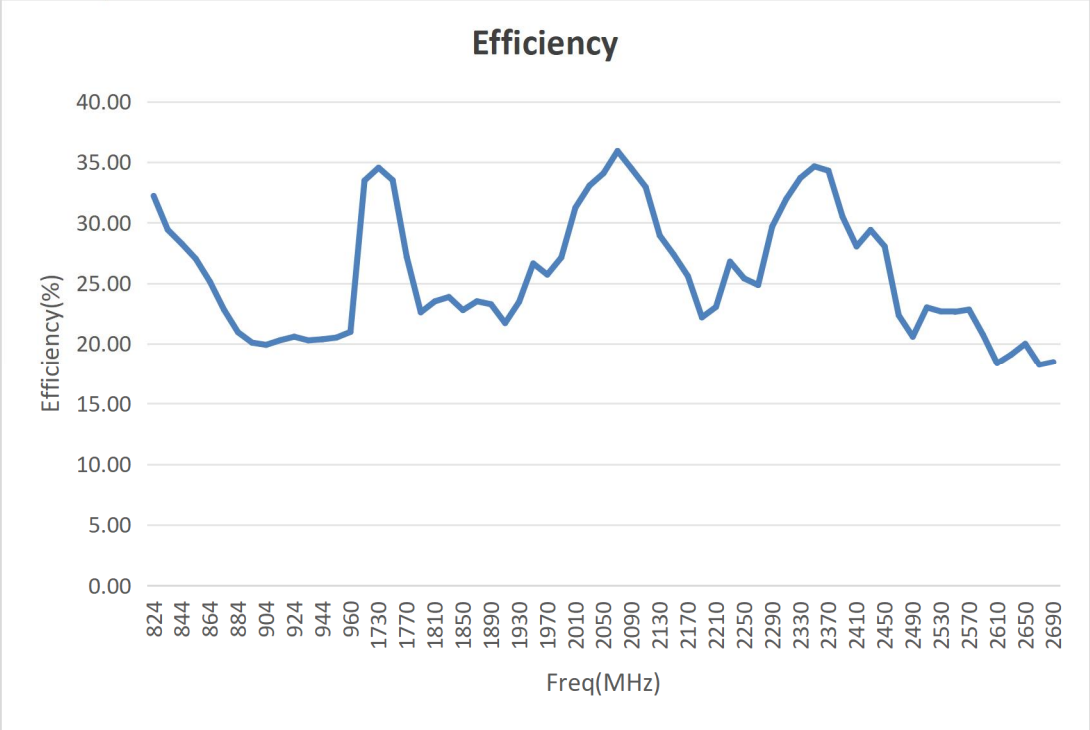
| | |
|---|---|
| Dimensions<br>(L x W x H) | Ø29.8 x 208 mm |

## ELECTRICAL PERFORMANCE

### Return Loss




### Efficiency（%）

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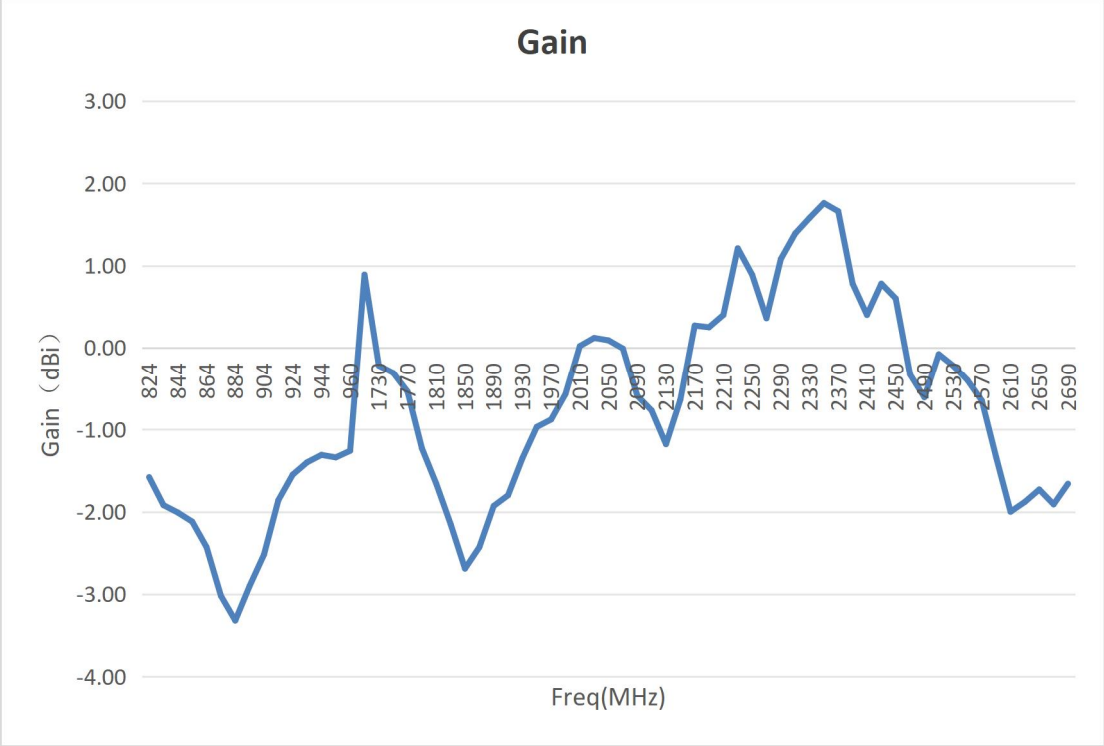
Peak Gain（dBi）




| Freq(MHz) | Gain（dBi） | Efficiency(%) | Freq(MHz) | Gain（dBi） | Efficiency(%) | Freq(MHz) | Gain（dBi） | Efficiency(%) |
|---|---|---|---|---|---|---|---|---|
| 824 | -1.58 | 32.21 | 1850 | -2.69 | 22.78 | 2290 | 1.08 | 29.68 |
| 834 | -1.92 | 29.42 | 1870 | -2.43 | 23.51 | 2310 | 1.39 | 31.96 |
| 844 | -2.01 | 28.26 | 1890 | -1.93 | 23.26 | 2330 | 1.58 | 33.69 |
| 854 | -2.12 | 27.01 | 1910 | -1.80 | 21.71 | 2350 | 1.76 | 34.65 |
| 864 | -2.43 | 25.13 | 1930 | -1.35 | 23.47 | 2370 | 1.66 | 34.29 |
| 874 | -3.02 | 22.82 | 1950 | -0.97 | 26.63 | 2390 | 0.78 | 30.50 |
| 884 | -3.32 | 20.95 | 1970 | -0.88 | 25.71 | 2410 | 0.40 | 28.04 |
| 894 | -2.90 | 20.09 | 1990 | -0.57 | 27.13 | 2430 | 0.78 | 29.40 |
| 904 | -2.52 | 19.91 | 2010 | 0.02 | 31.24 | 2450 | 0.60 | 28.04 |
| 914 | -1.86 | 20.29 | 2030 | 0.12 | 33.06 | 2470 | -0.33 | 22.35 |
| 924 | -1.55 | 20.58 | 2050 | 0.09 | 34.08 | 2490 | -0.61 | 20.58 |
| 934 | -1.40 | 20.28 | 2070 | -0.01 | 35.92 | 2510 | -0.08 | 23.00 |
| 944 | -1.31 | 20.37 | 2090 | -0.59 | 34.45 | 2530 | -0.22 | 22.67 |
| 954 | -1.34 | 20.51 | 2110 | -0.77 | 32.94 | 2550 | -0.40 | 22.64 |
| 960 | -1.26 | 20.98 | 2130 | -1.18 | 28.94 | 2570 | -0.65 | 22.82 |
| 1710 | 0.89 | 33.48 | 2150 | -0.64 | 27.35 | 2590 | -1.34 | 20.73 |
| 1730 | -0.22 | 34.54 | 2170 | 0.27 | 25.59 | 2610 | -2.00 | 18.35 |
| 1750 | -0.31 | 33.51 | 2190 | 0.25 | 22.18 | 2630 | -1.88 | 19.09 |
| 1770 | -0.54 | 27.18 | 2210 | 0.40 | 23.04 | 2650 | -1.73 | 19.99 |
| 1790 | -1.23 | 22.60 | 2230 | 1.21 | 26.78 | 2670 | -1.91 | 18.22 |
| 1810 | -1.66 | 23.50 | 2250 | 0.89 | 25.40 | 2690 | -1.66 | 18.47 |
| 1830 | -2.15 | 23.86 | 2270 | 0.36 | 24.85 | | | |

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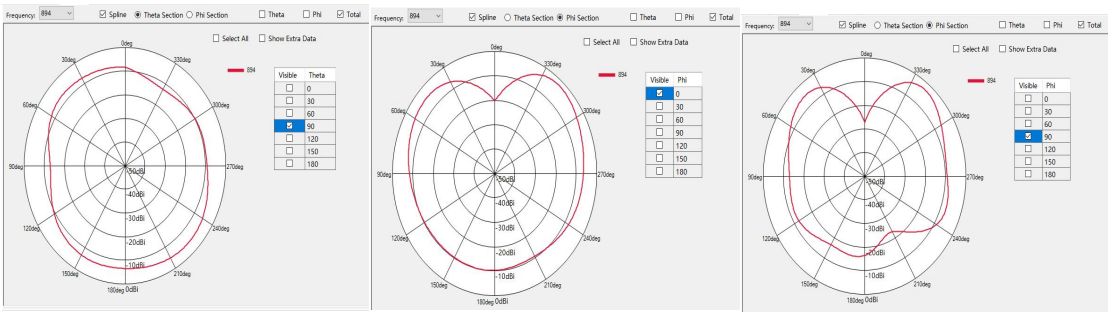
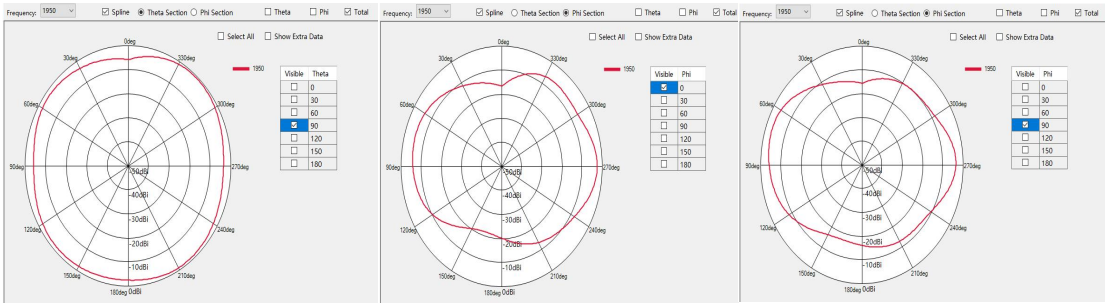
## RADIATION PATTERNS

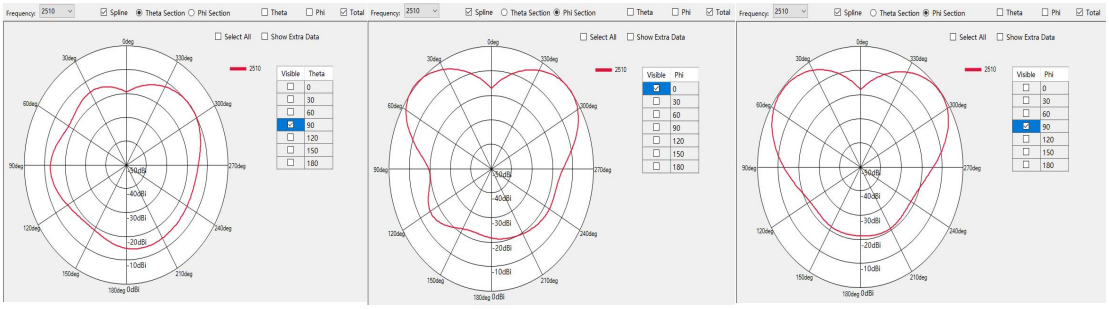
### 2D Radiation Pattern at 894MHz



### 2D Radiation Pattern at 1950MHz



### 2D Radiation Pattern at 2510MHz



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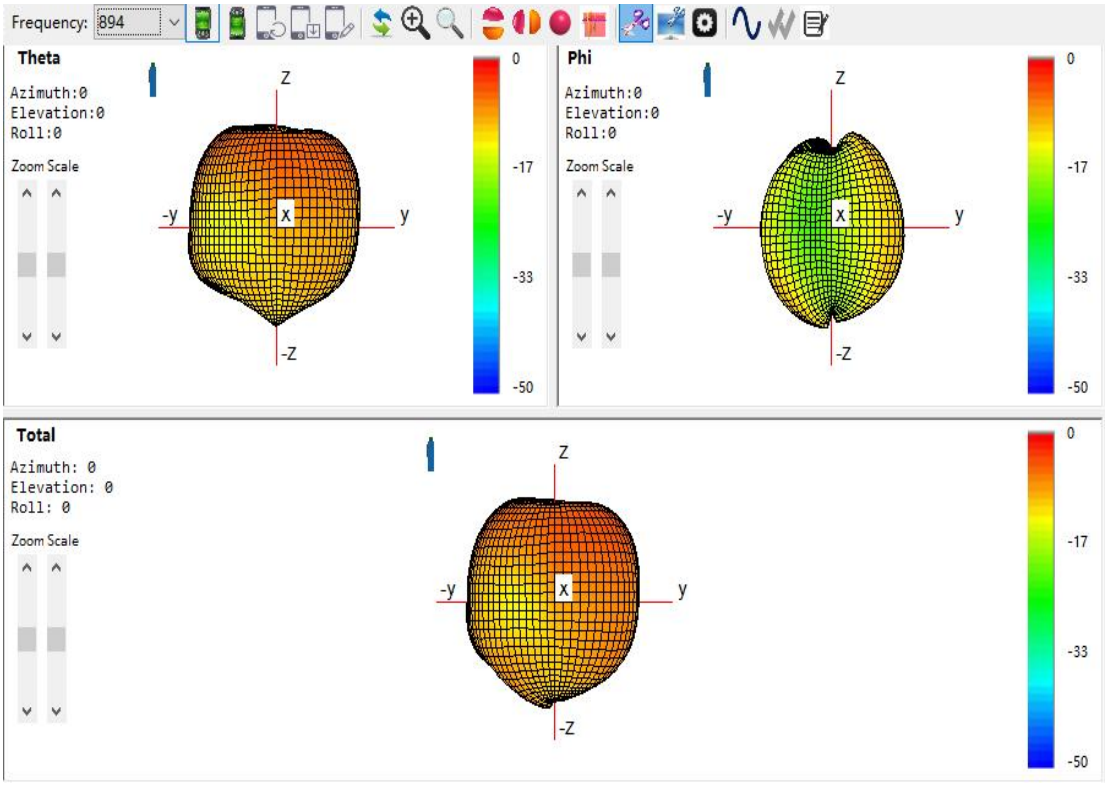
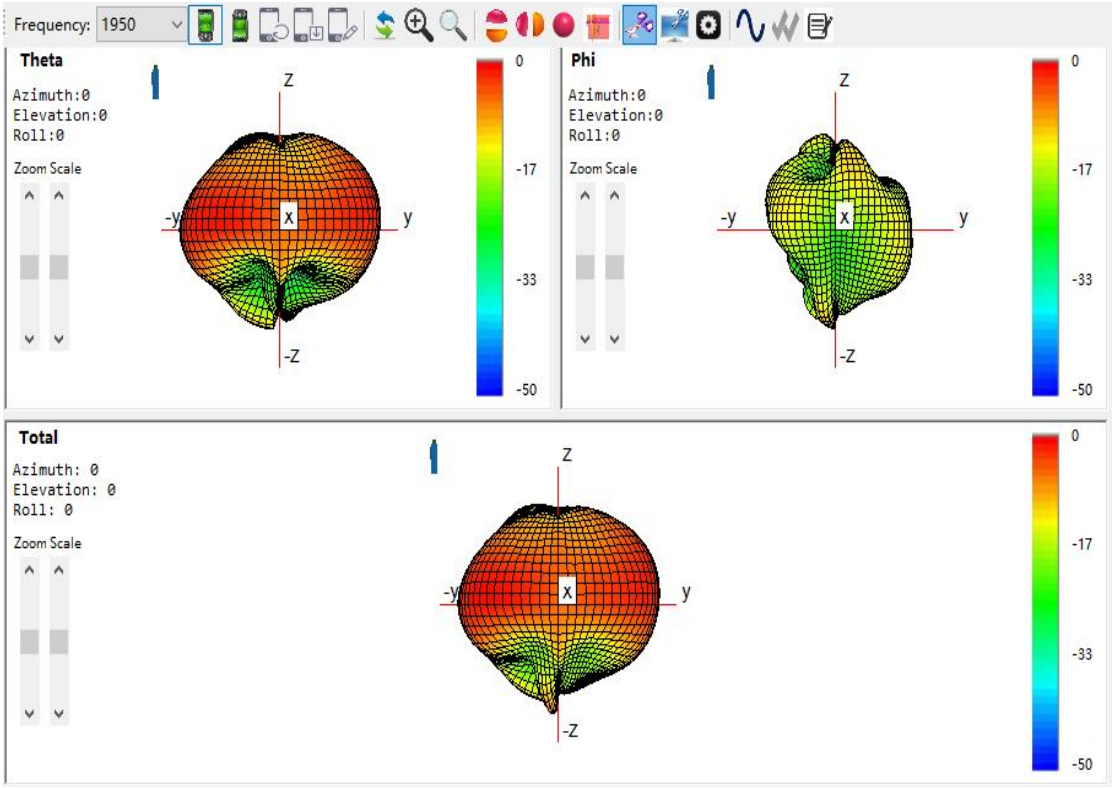
## 3D Radiation Pattern at 894MHz




## 3D Radiation Pattern at 1950MHz

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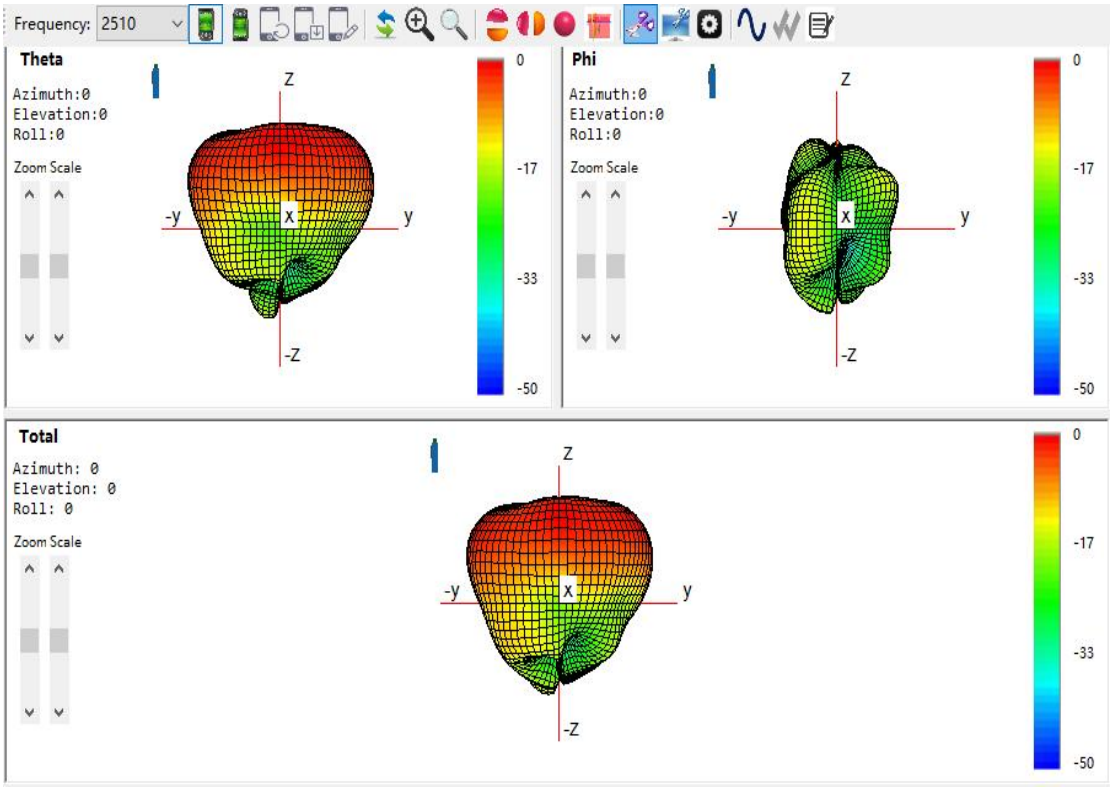
## 3D Radiation Pattern at 2510MHz

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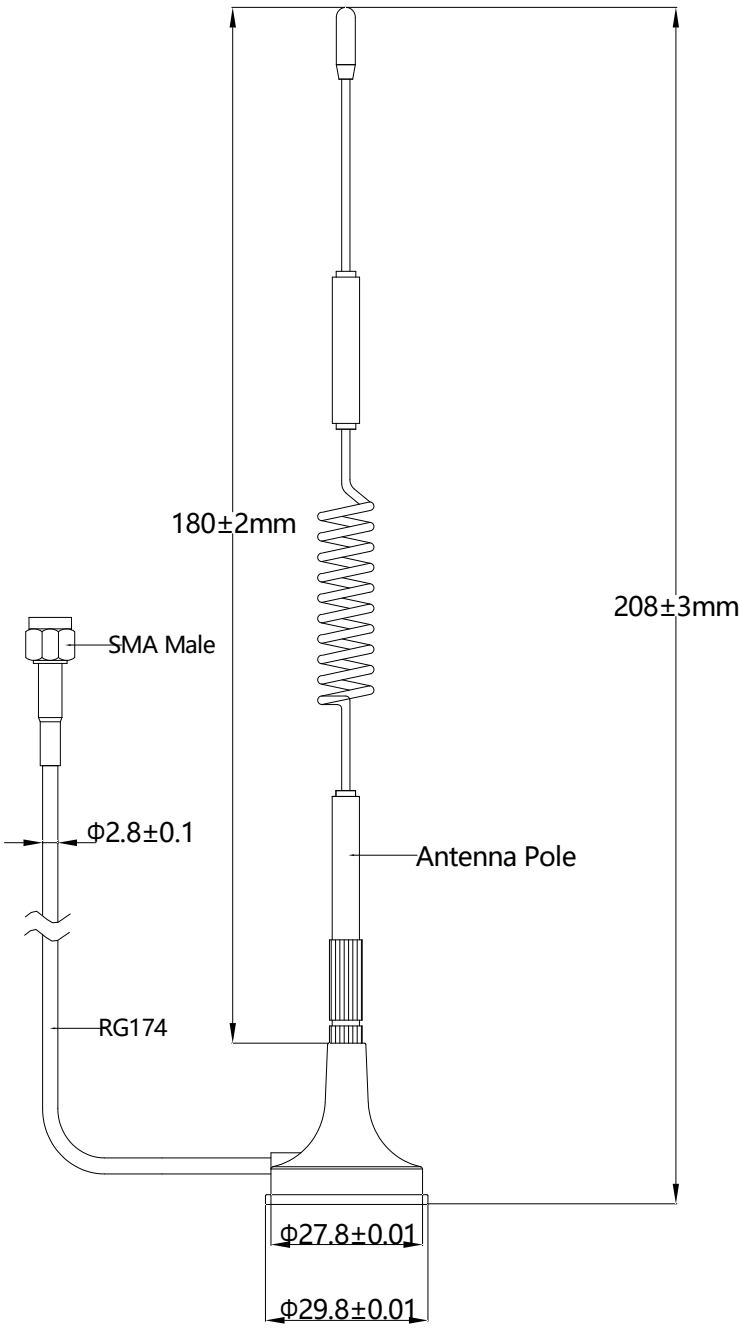
## HOUSING CONFIGURATIONS

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