# 258F 25x11 L100CM1 Antenna

## FEATURES & BENEFITS

- Welding RG 1.13 cable, Ipex connector, 3M sticker for easy installation.
- Mounting to: non-conductive surface
- Installation type: adhesive

## APPLICATIONS

- IoT Devices
- Smart Cities
- Smart Agriculture
- Consumer Tracking
- Smart Metering
- Smart Agriculture

## ORDER INFORMATION

| | |
|---|---|
| Product Name | 258 25x11 L100CM1 Antenna |
| Part Number | M01-0202030R0A |
| Dimensions | 25 x 11 mm |
| Weight | 0.4 g |
| Color | Black |
| Mounting | adhesive |
| Antenna Cable | Default IPEX 1 RF 1.13 black coaxial cable ( Ø 1.13 x 100 mm) , customizable. |

## REFERENCE GUIDE

| | | |
|---|---|---|
| Technical Features (MHz) | 2400-2500 | 5100-5900 |
| Max VSWR | 2.0:1 | 3:1 |
| Max Efficiency | 78.19% | |
| Peak Gain | 3.01dBi | |
| 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 | |
| Dimensions (L x W x H) | 25x 11mm | |
| All test data were obtained from testing conducted on 1.4mm thick polycarbonate (PC) plastic material; with an 100-mm-long RF 1.13 cable.Application data might vary. | | |

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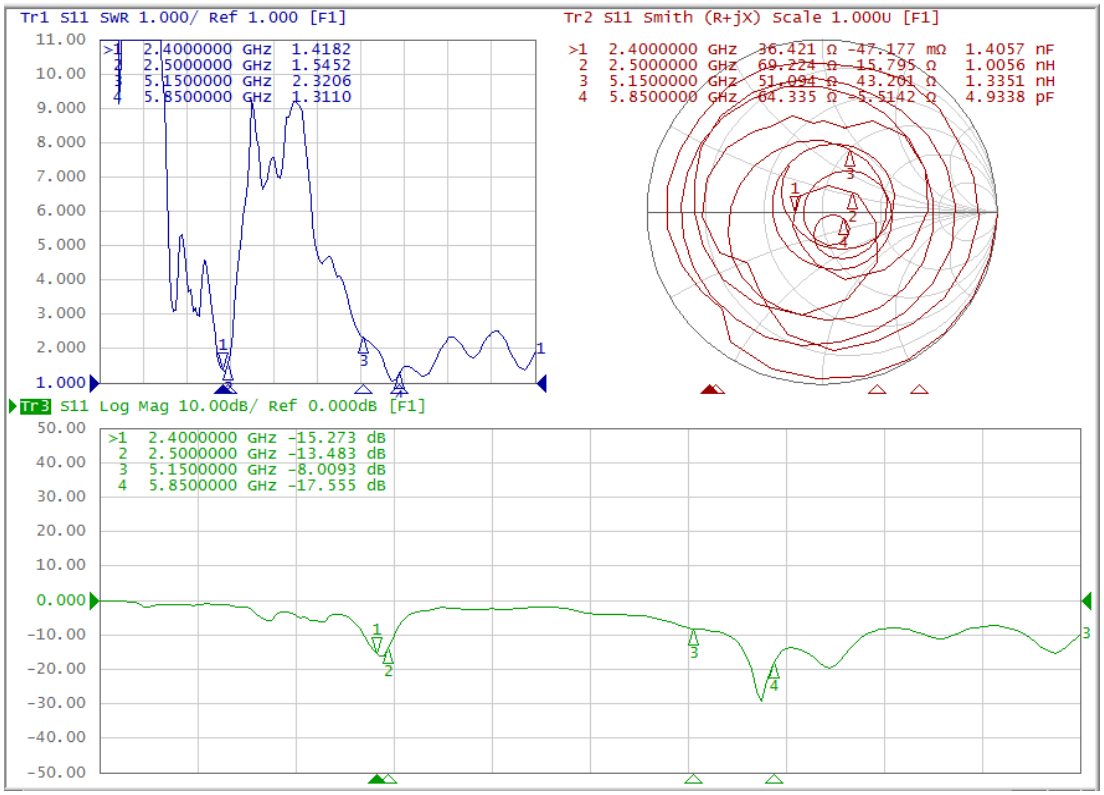
## ELECTRICAL PERFORMANCE

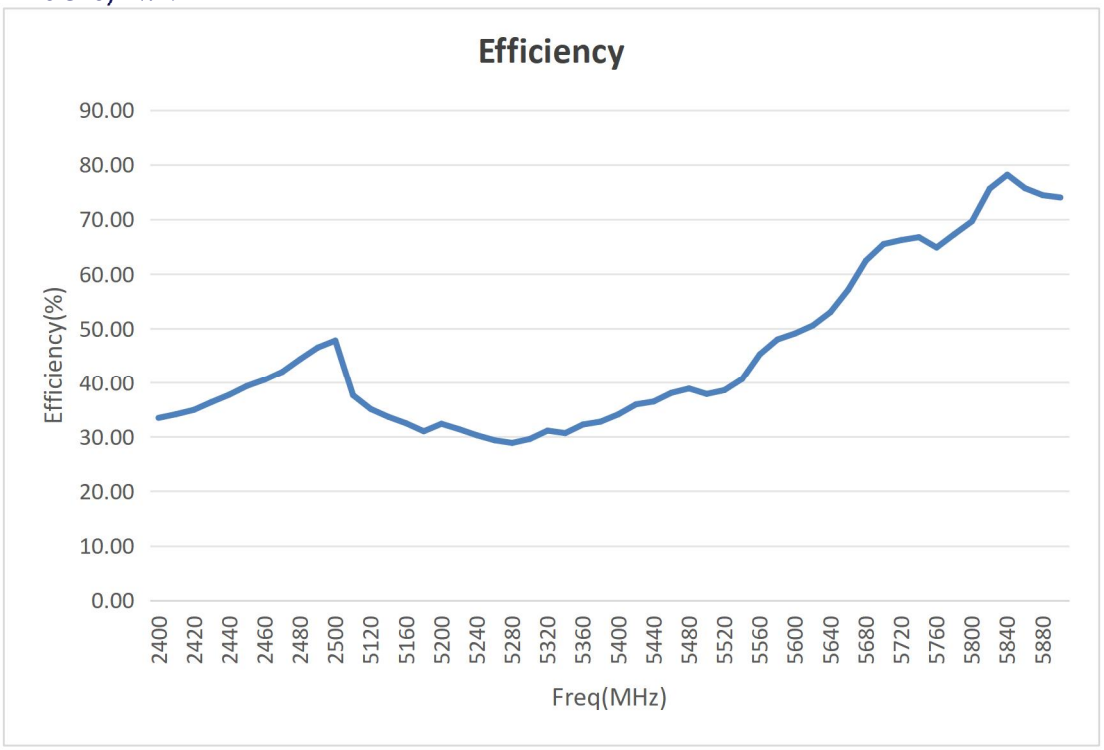
- Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 100mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

### Return Loss




### Efficiency（%）

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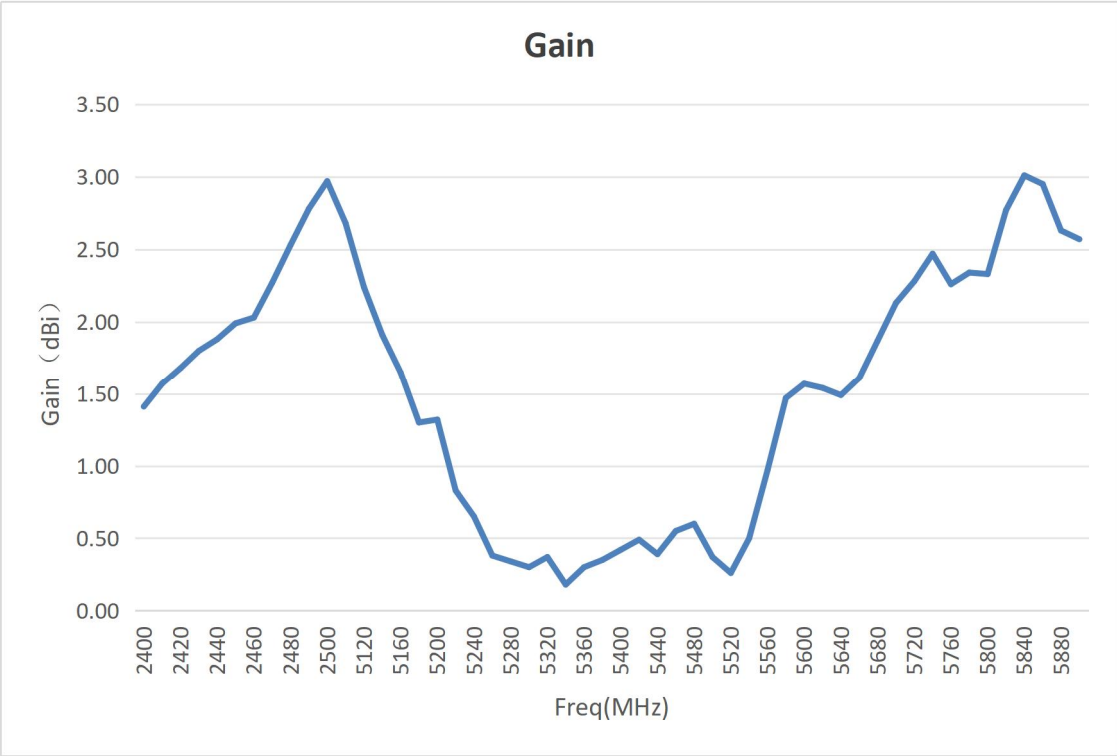
Peak Gain（dBi）




| Freq(MHz) | Gain（dBi） | Efficiency(%) | Freq(MHz) | Gain（dBi） | Efficiency(%) | Freq(MHz) | Gain（dBi） | Efficiency(%) |
|---|---|---|---|---|---|---|---|---|
| 2400 | 1.41 | 33.48 | 5240 | 0.65 | 30.29 | 5600 | 1.57 | 49.12 |
| 2410 | 1.57 | 34.16 | 5260 | 0.38 | 29.37 | 5620 | 1.54 | 50.57 |
| 2420 | 1.68 | 34.96 | 5280 | 0.34 | 28.88 | 5640 | 1.49 | 53.02 |
| 2430 | 1.80 | 36.40 | 5300 | 0.30 | 29.61 | 5660 | 1.61 | 57.12 |
| 2440 | 1.88 | 37.75 | 5320 | 0.37 | 31.14 | 5680 | 1.87 | 62.45 |
| 2450 | 1.99 | 39.37 | 5340 | 0.18 | 30.68 | 5700 | 2.13 | 65.49 |
| 2460 | 2.03 | 40.54 | 5360 | 0.30 | 32.26 | 5720 | 2.28 | 66.22 |
| 2470 | 2.27 | 42.04 | 5380 | 0.35 | 32.79 | 5740 | 2.47 | 66.75 |
| 2480 | 2.53 | 44.35 | 5400 | 0.42 | 34.13 | 5760 | 2.26 | 64.86 |
| 2490 | 2.78 | 46.51 | 5420 | 0.49 | 35.97 | 5780 | 2.34 | 67.29 |
| 2500 | 2.97 | 47.81 | 5440 | 0.39 | 36.50 | 5800 | 2.33 | 69.66 |
| 5100 | 2.68 | 37.66 | 5460 | 0.55 | 38.09 | 5820 | 2.77 | 75.63 |
| 5120 | 2.24 | 35.12 | 5480 | 0.60 | 38.90 | 5840 | 3.01 | 78.19 |
| 5140 | 1.91 | 33.67 | 5500 | 0.37 | 37.89 | 5860 | 2.95 | 75.72 |
| 5160 | 1.65 | 32.49 | 5520 | 0.26 | 38.59 | 5880 | 2.63 | 74.44 |
| 5180 | 1.30 | 31.02 | 5540 | 0.50 | 40.66 | 5900 | 2.57 | 74.02 |
| 5200 | 1.32 | 32.39 | 5560 | 0.97 | 45.27 | | | |
| 5220 | 0.83 | 31.40 | 5580 | 1.47 | 48.01 | | | |

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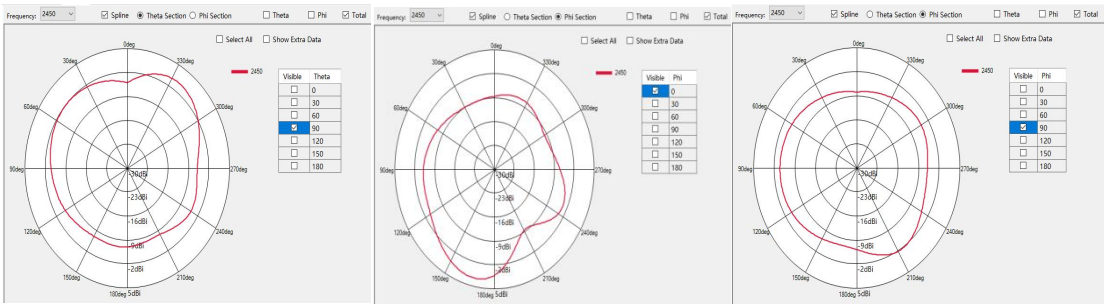
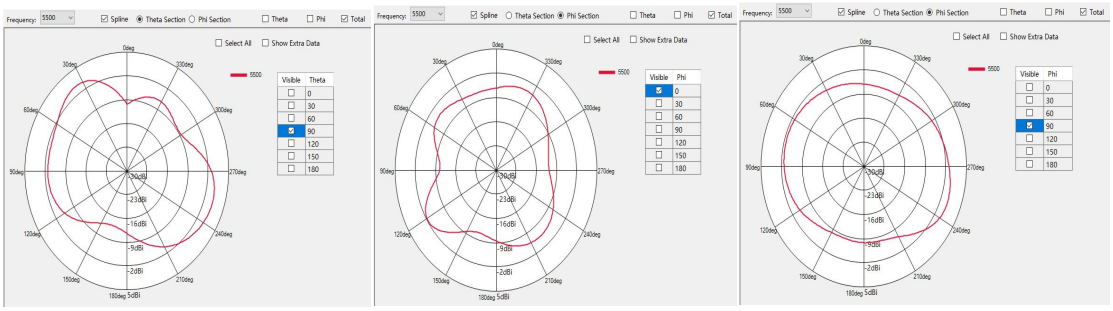
**RADIATION PATTERNS(The data were obtained through testing conducted using a 100-mm-long RF 1.13 cable mounted on a 1.4mm thick polycarbonate (PC) plastic substrate.)**

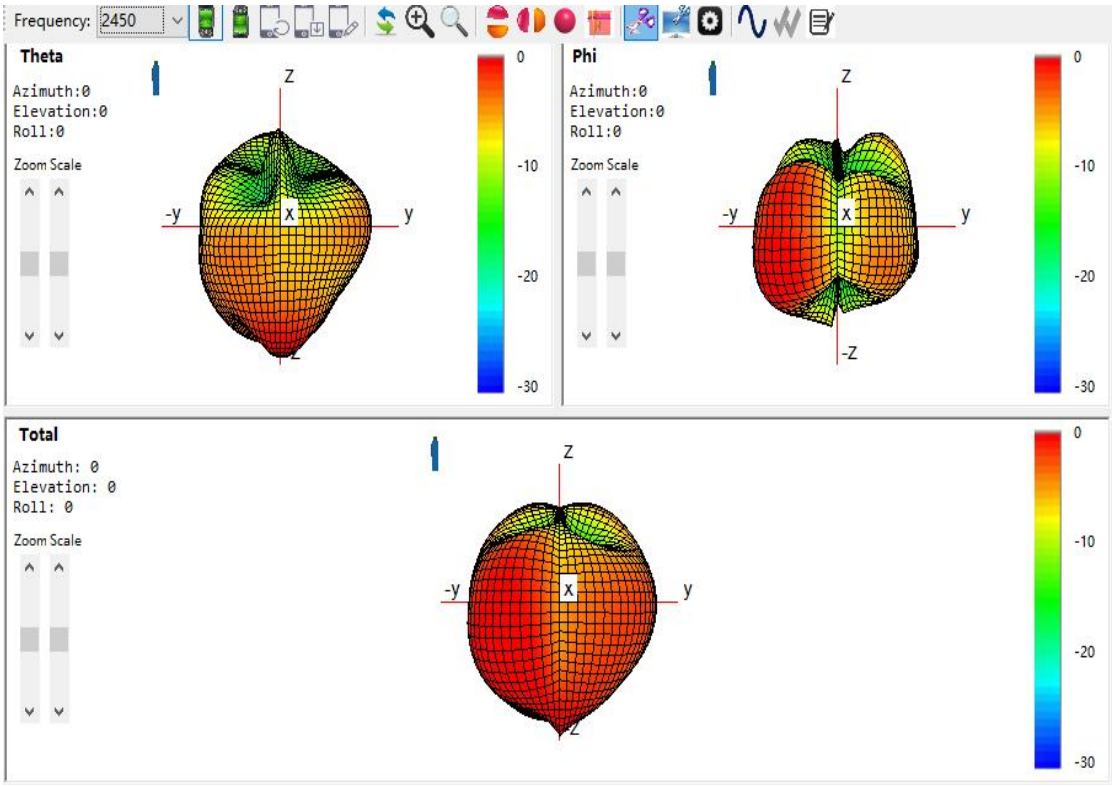
## 2D Radiation Pattern at 2450MHz



## 2D Radiation Pattern at 5500MHz



## 3D Radiation Pattern at 2450MHz

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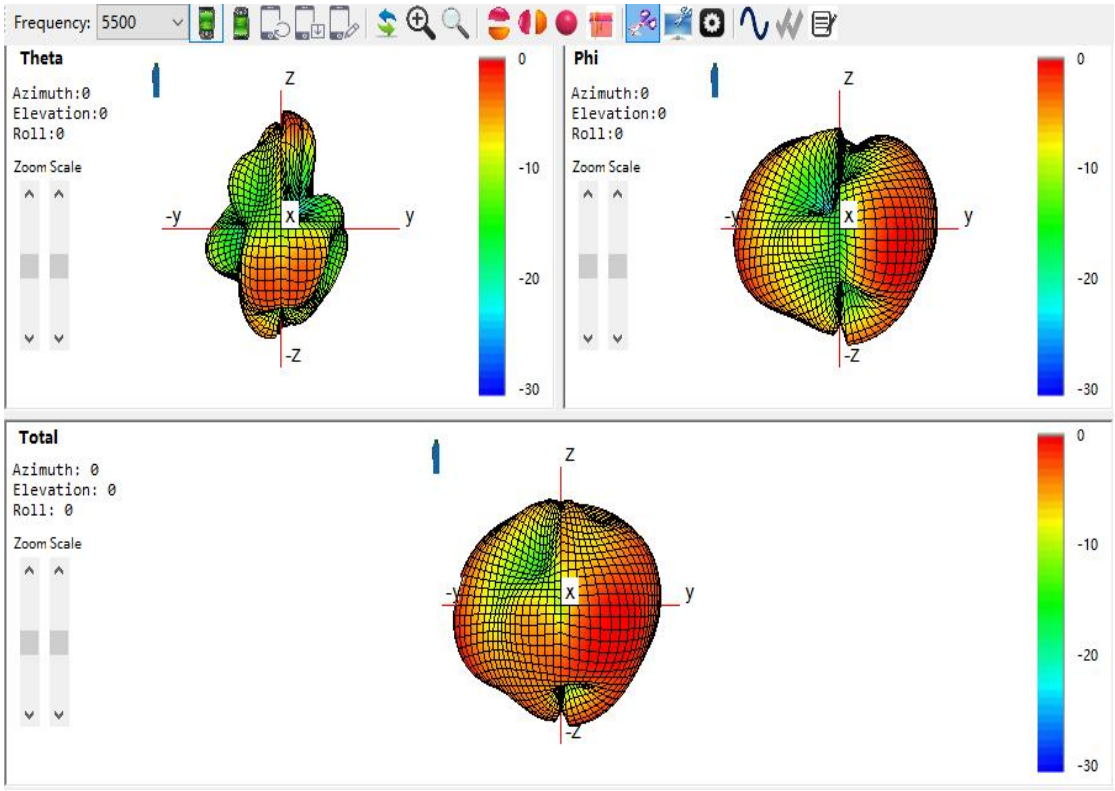
## 3D Radiation Pattern at 5500MHz

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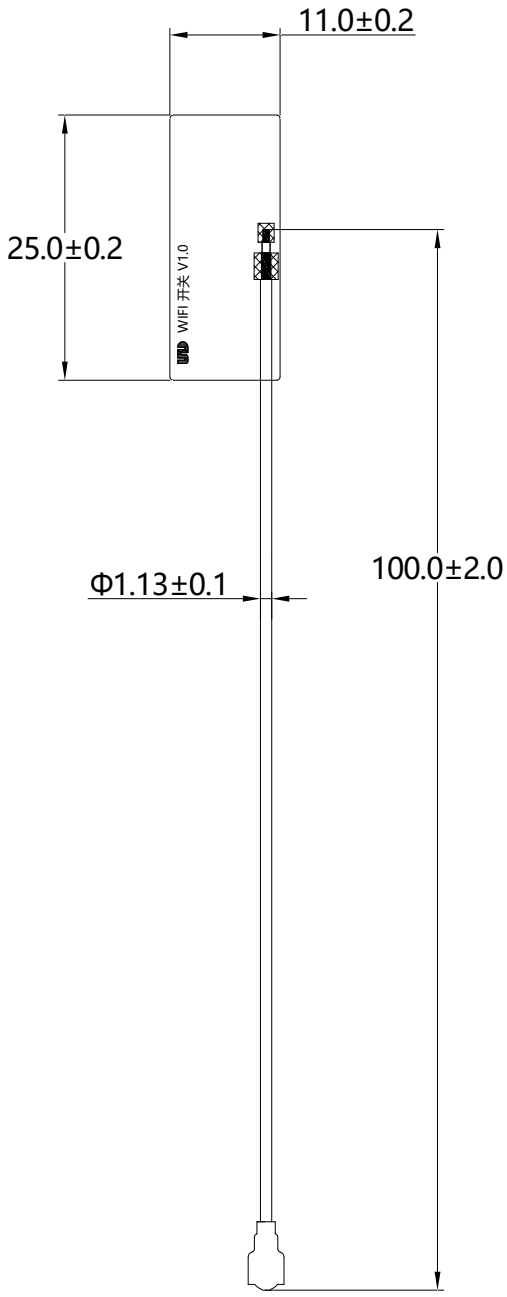
## HOUSING CONFIGURATIONS




IPEX 1

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