

258F 25x11 L31CM1 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	258F 25x11 L31CM1 Antenna
Part Number	M01-0601920R0A
Dimensions	25 x 11mm
Weight	0.1 g
Color	Black
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 31 mm) , customizable.

REFERENCE GUIDE

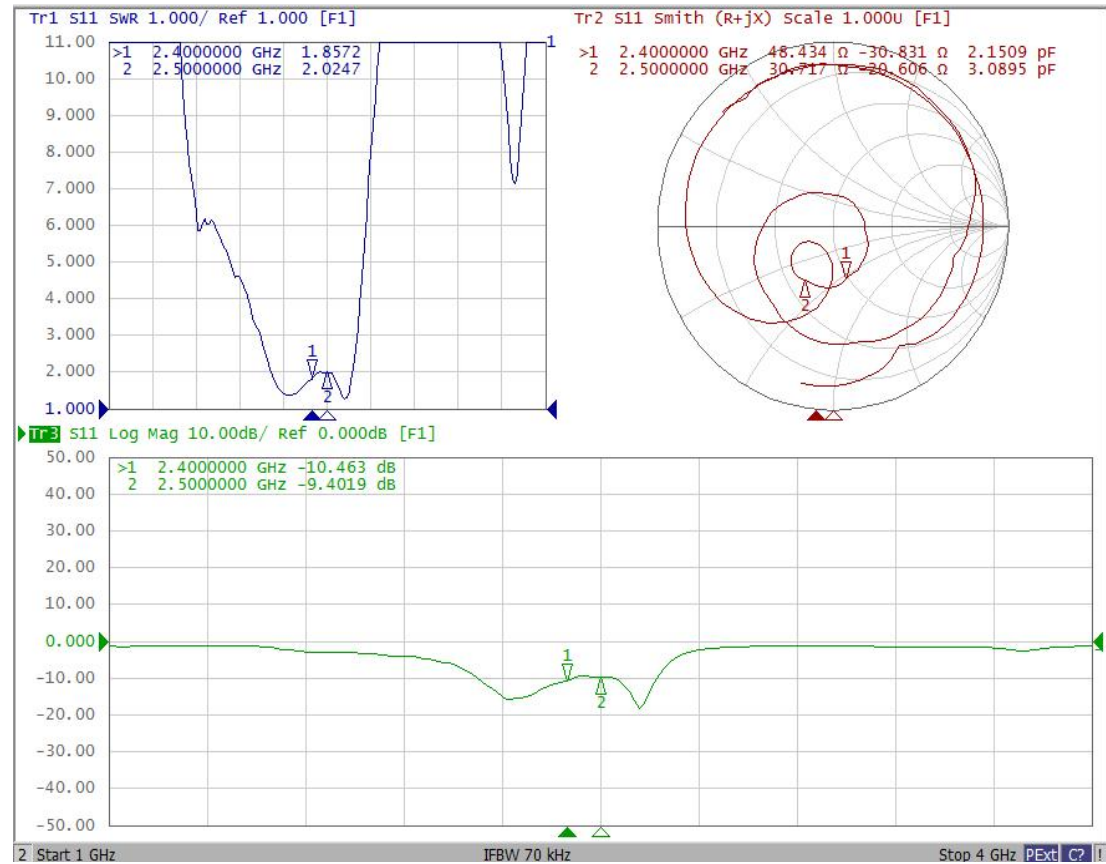
Technical Features (MHz)	2400-2500
Max VSWR	3.0:1
Max Efficiency	42.58%
Peak Gain	2.32dBi
Radiation Pattern	Omnidirectional
Polarization	Linear
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
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 31-mm-long RF 1.13 cable.Application data might vary.	

ELECTRICAL PERFORMANCE

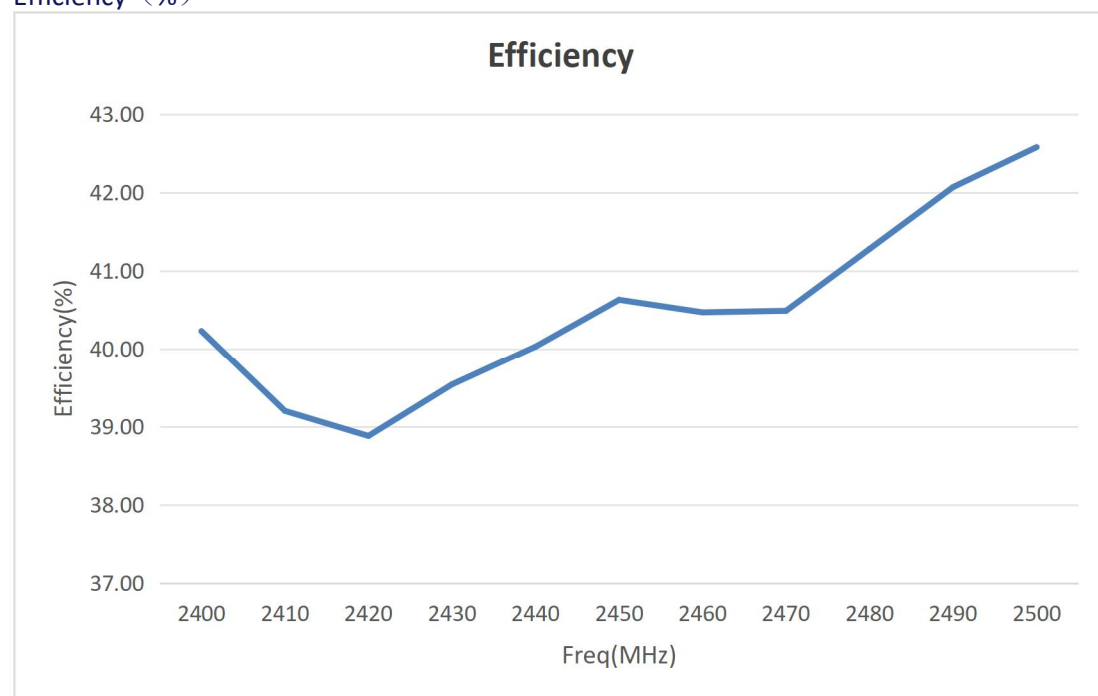
- Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 31mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

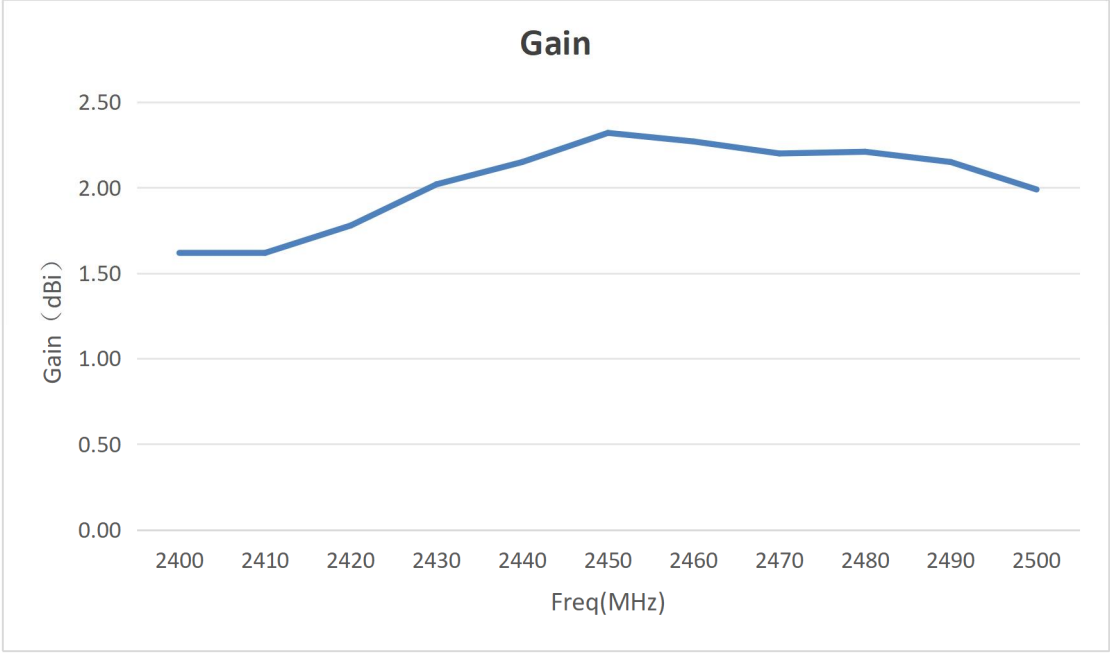
Return Loss



Efficiency (%)



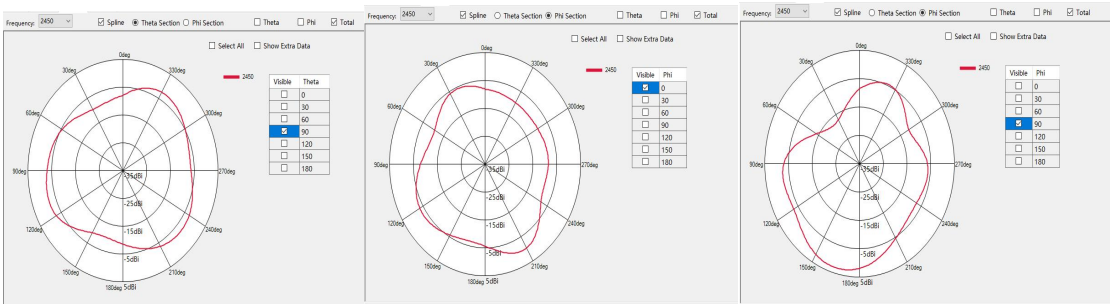
Peak Gain (dBi)



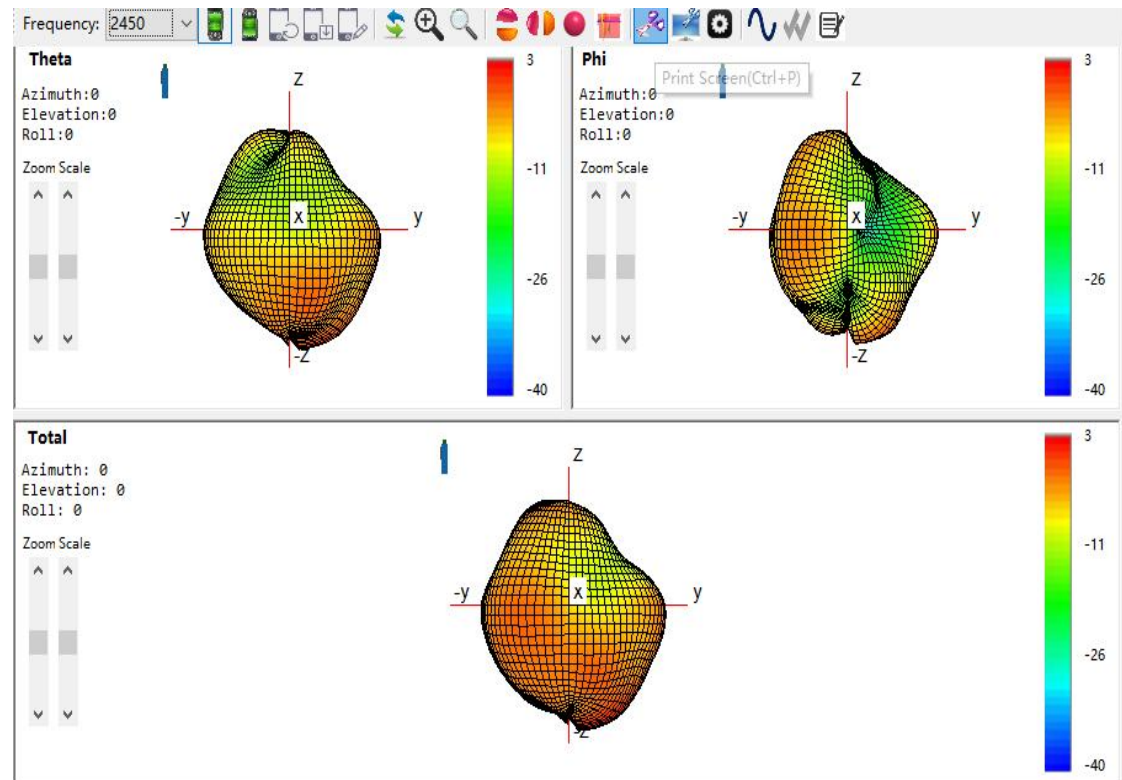
Freq(MHz)	Gain (dBi)	Efficiency(%)
2400	1.62	40.23
2410	1.62	39.20
2420	1.78	38.88
2430	2.02	39.54
2440	2.15	40.03
2450	2.32	40.63
2460	2.27	40.47
2470	2.20	40.49
2480	2.21	41.28
2490	2.15	42.07
2500	1.99	42.58

RADIATION PATTERNS(The data were obtained through testing conducted using a 31-mm-long RF 1.13 cable mounted on a 1.4mm thick polycarbonate (PC) plastic substrate.)

2D Radiation Pattern at 2450MHz



3D Radiation Pattern at 2450MHz



HOUSING CONFIGURATIONS

