

868-915MHz 75.8x13.75 Antenna

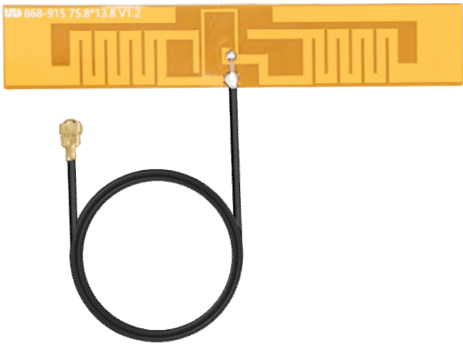
FEATURES & BENEFITS



- 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	868-915MHz 75.8x13.75 Antenna
Part Number	AILF006
Dimensions	75.8 x 13.75 mm
Weight	0.8 g
Color	Yellow
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 100 mm) , customizable.

REFERENCE GUIDE

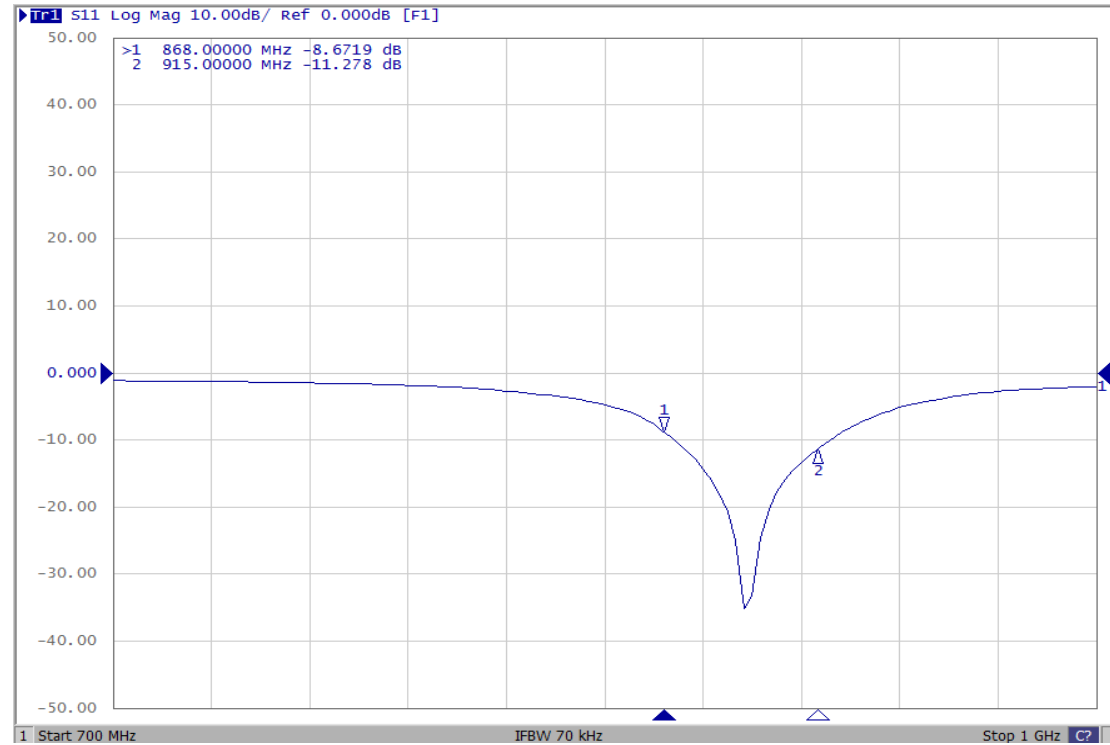
Technical Features (MHz)	868-915
Max VSWR	3.0:1
Max Efficiency	62.09%
Peak Gain	1.77dBi
Radiation Pattern	Omnidirectional
Polarization	Linear
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
Dimensions (L x W x H)	75.8 x 13.75mm
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.	

ELECTRICAL PERFORMANCE

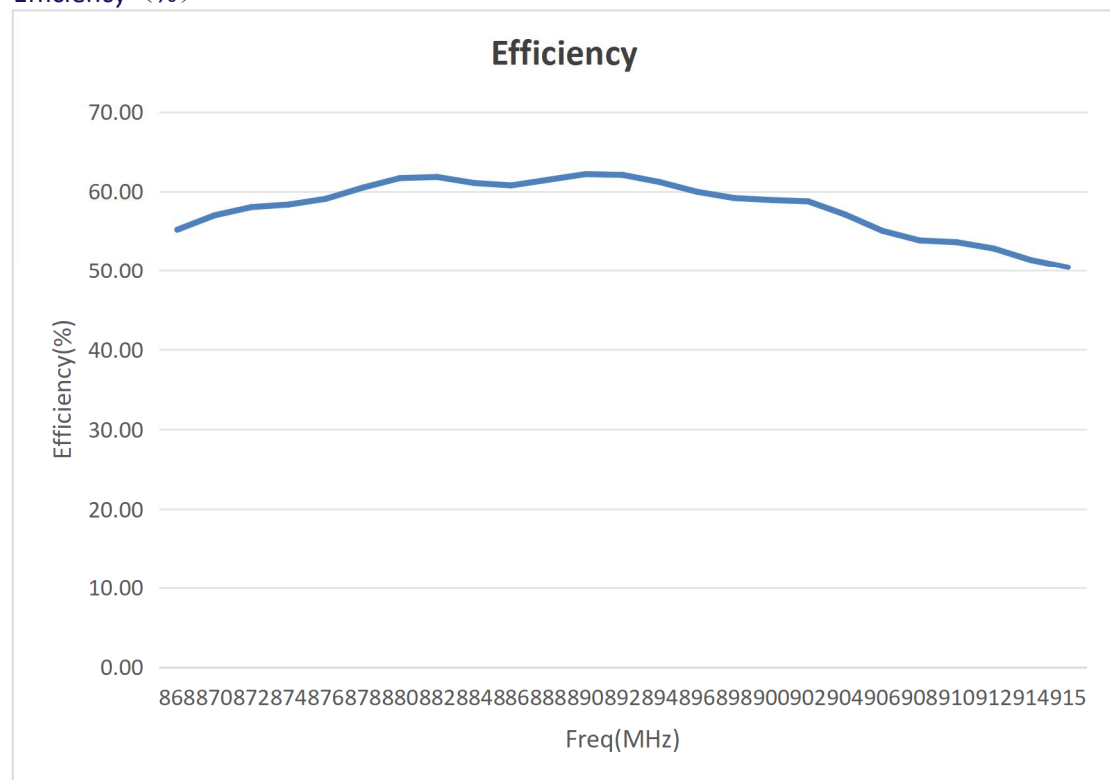
Note

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.

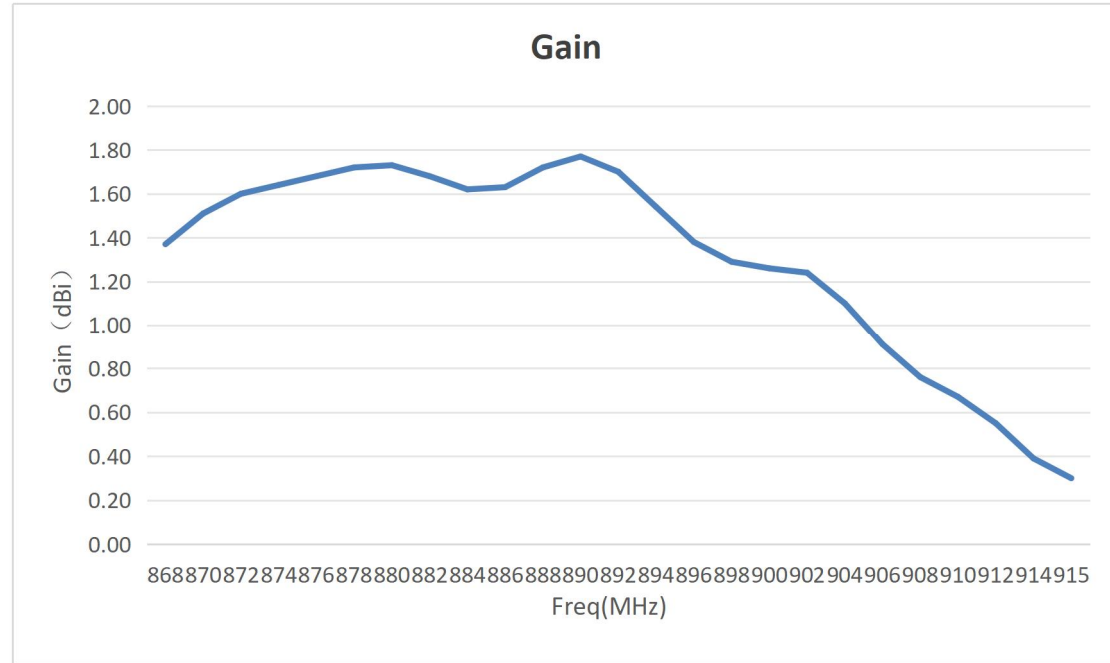
Return Loss



Efficiency (%)



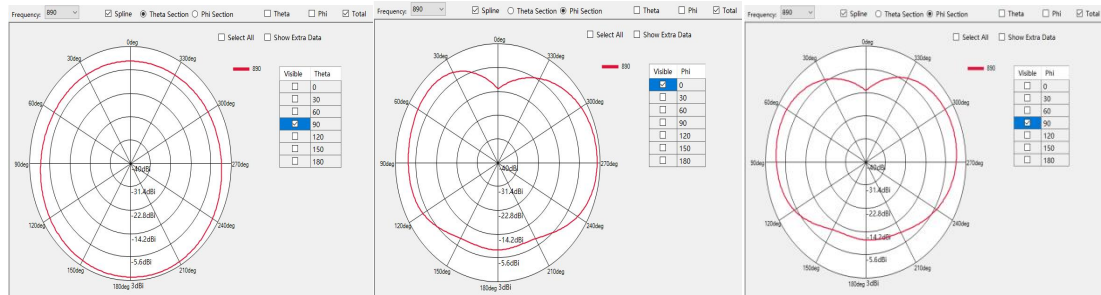
Peak Gain (dBi)



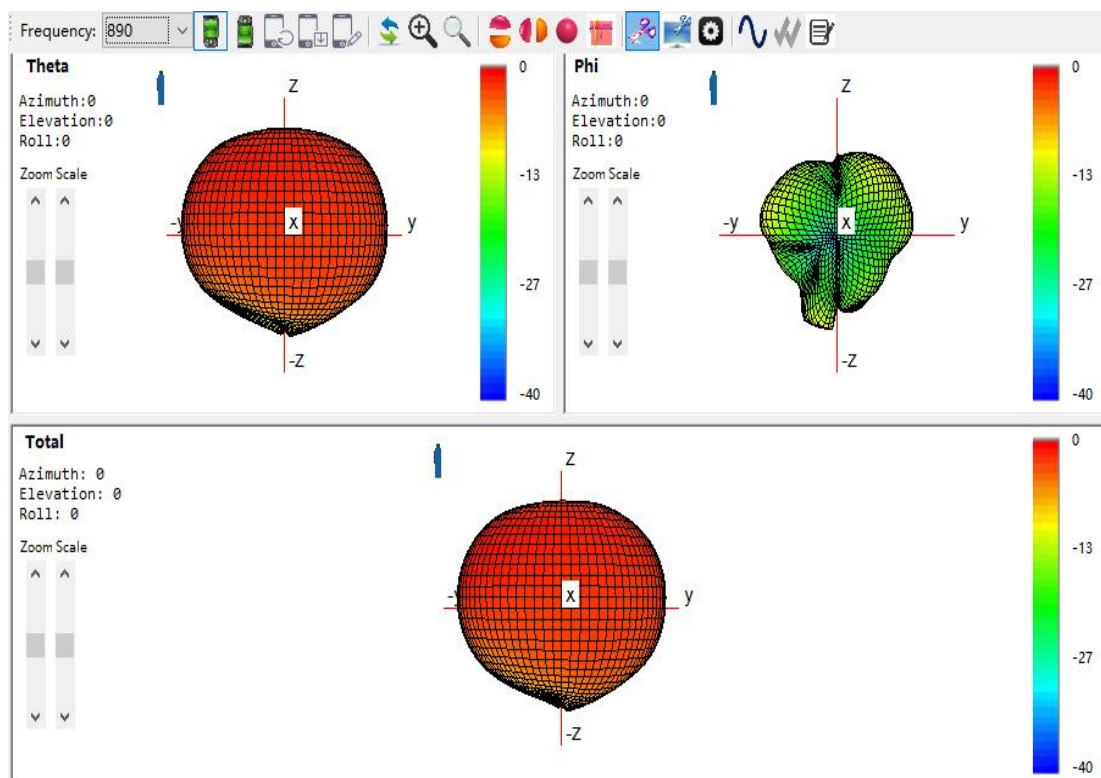
Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)
868	1.37	55.19	894	1.54	61.19
870	1.51	57.00	896	1.38	59.97
872	1.60	58.04	898	1.29	59.18
874	1.64	58.36	900	1.26	58.93
876	1.68	59.08	902	1.24	58.76
878	1.72	60.49	904	1.10	57.10
880	1.73	61.69	906	0.91	55.05
882	1.68	61.83	908	0.76	53.84
884	1.62	61.07	910	0.67	53.62
886	1.63	60.77	912	0.55	52.82
888	1.72	61.48	914	0.39	51.36
890	1.77	62.19	915	0.30	50.41
892	1.70	62.09			

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 890MHz



3D Radiation Pattern at 890MHz



HOUSING CONFIGURATIONS

