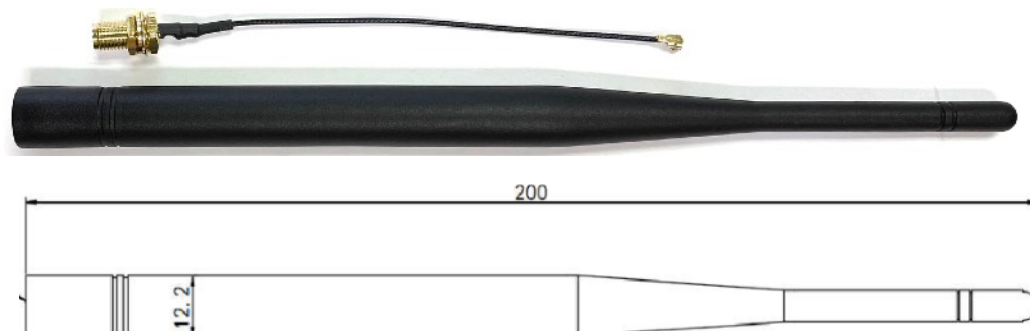


Antennas

ANT025P or ANT025 antenna consists of:

- an antenna for LoRa interface with an SMA connector.
- ANT025 with adjustable mounting angle.
- ANT025P with IP67 Ingress Protection rating. No adjustable mounting angle.
- an SMA connector to u.FL connector adaptor cable, length is 100 mm.
- panel mounting hardware at SMA connector side of adaptor cable.



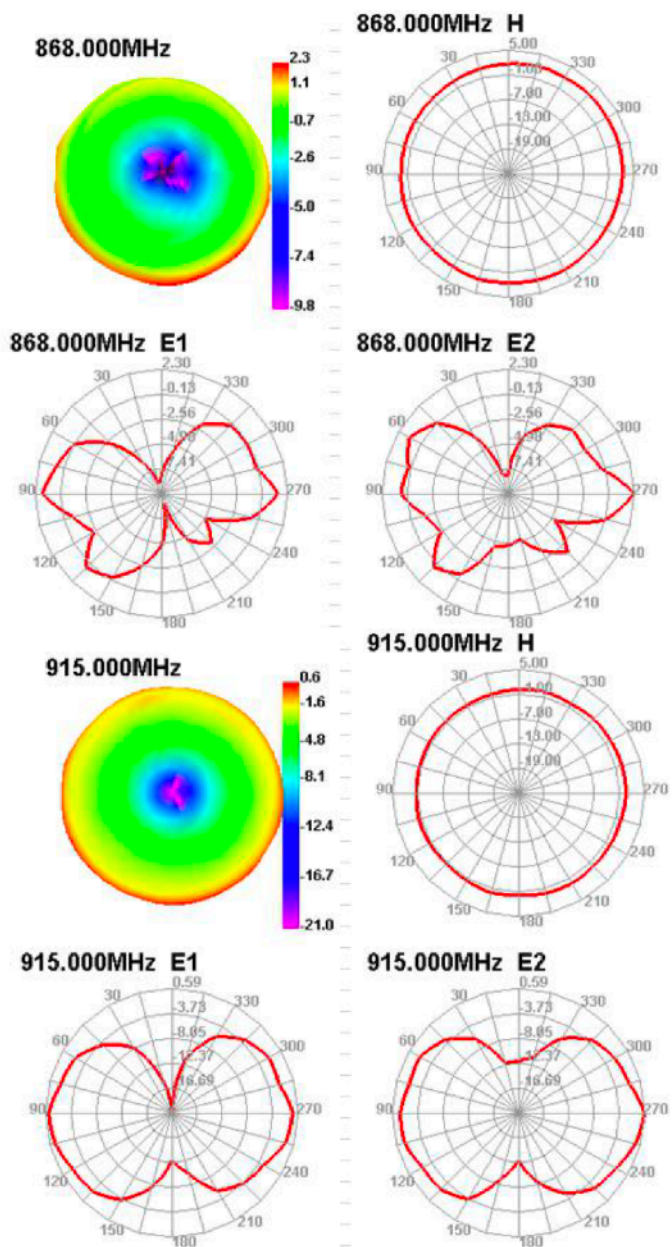
Common Specifications

Transmission Parameters	
Frequency (MHZ)	868-915MHz
Voltage Standing Wave Ratio (VSWR)	≤ 2.0
Gain (dBi)	≤ 0.99 dBi
Radiation Pattern	Omni
Polarization	Linear
Input Impedance (ohm)	50
Mechanical Parameters	
Connector	SMA
Antenna Length x Width (MM)	200x12.2 mm
Shell Material	ABS
Environmental Parameters	
Operating temperature	-40°C~+80°C
Operating Humidity	40~85%

ANT025 and ANT025P Antenna Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
868	61.66	0.72
870	67.76	0.85
872	67.61	0.74
874	65.01	0.95
876	65.31	0.67
878	69.66	0.97
880	73.62	0.88
882	72.28	0.92
884	68.71	0.84
886	68.23	0.74
888	73.62	0.94
890	82.04	0.84
892	85.9	0.9
894	83.37	0.59
896	79.8	0.43
898	80.72	0.6
900	83.95	0.87
902	84.53	0.81
904	79.43	0.51
906	73.11	0.33
908	71.61	0.76
910	76.38	0.99
912	83.75	0.68
914	85.51	0.77
915	83.95	0.65
928	85.81	0.84

ANT025 and ANT025P Radiation Patterns



Test Equipment and Set Up

The following test equipment are used.

- Network Analyzer: Agilent 8753D, 5071B
- Communication test set: Agilent E5515C
- Test set up is below.

