

# 863-870MHz 5.8dBi Fiberglass Antenna Datasheet

## Features

- Frequency Range: 863 ~ 870 MHz
- Max Gain: 5.8 dBi
- VSWR:  $\leq 2.0$
- High Efficiency
- Radome Body: **Fiberglass**
- Vertically Polarized Dipole
- Omnidirectional
- Easy to mount with the included Installation kit
- Outdoor use



Figure 1: RAKARG13 Overview

## Specifications

### Hardware

### Electrical Characteristics

Parameter	Value
Model	RAKARG13
Frequency Range	863 ~ 870 MHz
Peak Gain	5.8 dBi
VSWR	$\leq 2.0$
Efficiency	$\leq 79\%$
Feed Impedance	50 $\Omega$
Radiation Pattern	Omnidirectional
Polarization	Vertical
Cover Material (color)	Fiberglass (white)
Connector Type	N-type male
Dimensions (mm)	$\Phi$ 29.8 mm x 800.0 mm

# Environmental Characteristics

## Operation Environment

Parameter	Value
Temperature	-30 °C ~ +65 °C
Humidity	5% ~ 95%

## Storage environment

Parameter	Value
Temperature	-30 °C ~ +75 °C
Humidity	5% ~ 95%

## VSWR

Frequency (MHz)	VSWR
860 MHz	1.32
863 MMHz	1.22
868 MMHz	1.13
870 MMHz	1.11

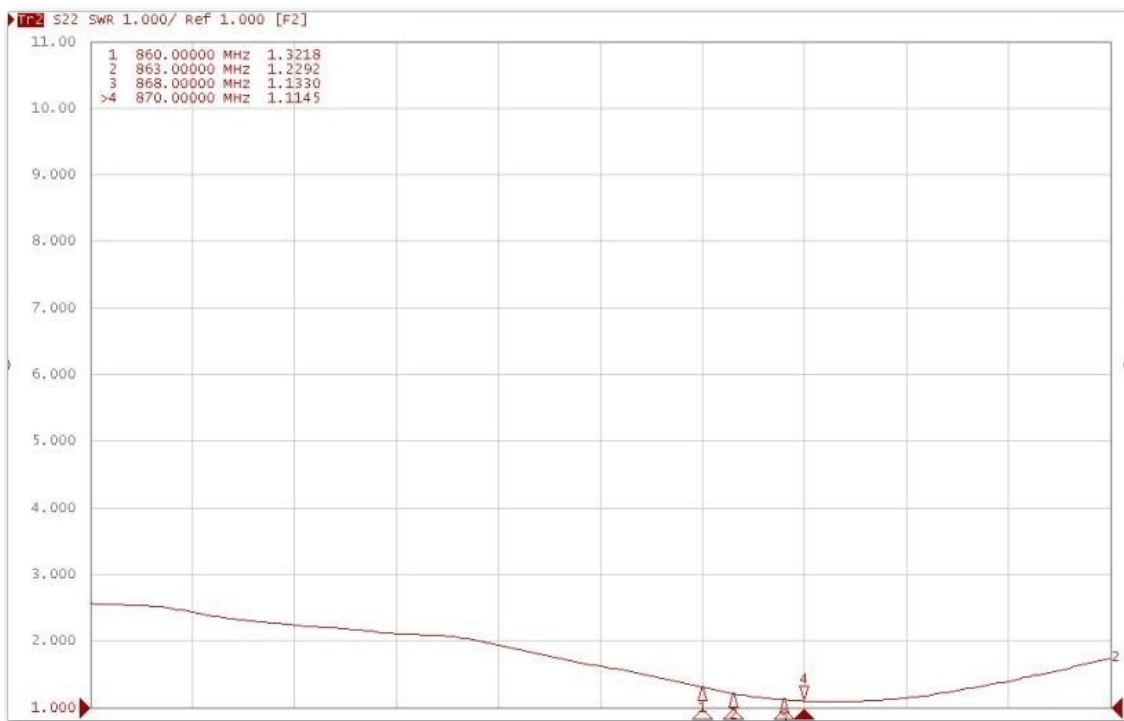


Figure 2: RAKARG13 VSWR Graph

## Peak Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)
864	6.15	75.62
866	6.23	75.61
868	6.31	77.73
870	6.33	78.80
Average:		76.94

## Radiation Patterns

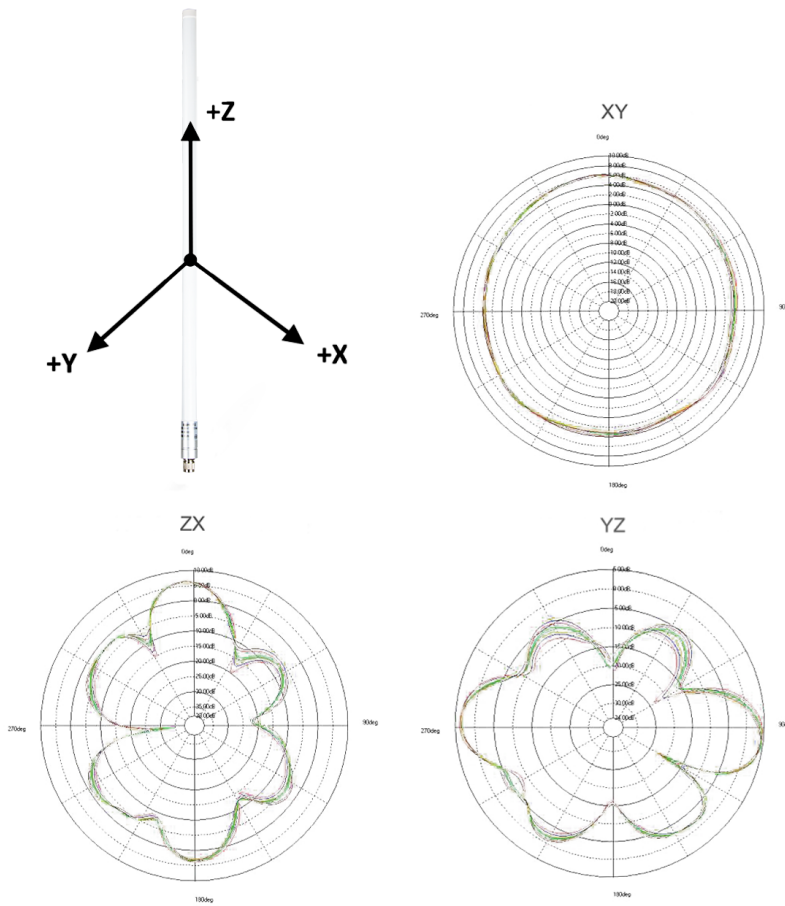


Figure 3: RAKARG14 Radiation Patterns

## Mechanical Characteristics

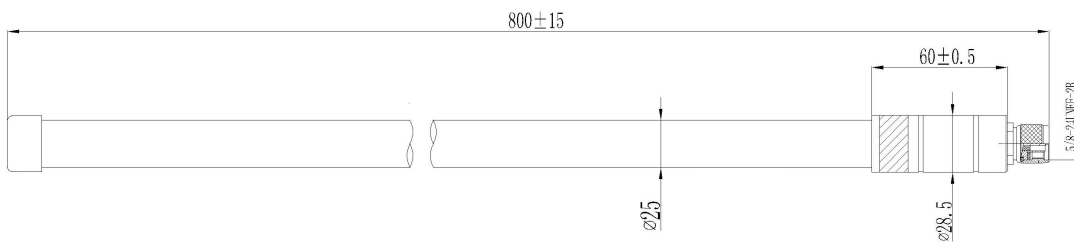


Figure 4: RAKARG14 Mechanical Characteristics

