

RAKARG14-902-928MHz 5.8dBi Fiberglass Antenna Datasheet

Features

- Frequency range: 902 ~ 930 MHz
- Max gain: 5.8 dBi
- VSWR: ≤ 2.0
- High Efficiency
- Radome Body: **Fiberglass**
- Vertically Polarized Dipole
- Omnidirectional
- Easy to mount with the included Installation kit
- Outdoor use

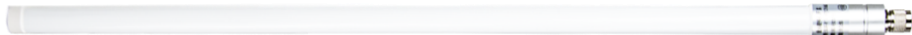


Figure 1: RAKARG14 Overview

Specifications

Hardware

Electrical Characteristics

Parameter	Value
Model	RAKARG14
Frequency Range	902 ~ 930 MHz
Peak Gain	5.8 dBi
VSWR	≤ 2.0
Efficiency	$\leq 79\%$
Feed Impedance	50 Ω
Radiation Pattern	Omnidirectional
Polarization	Vertical
Cover Material (color)	Fiberglass (white)
Connector Type	N-type male
Dimensions (mm)	Φ 29.8 mm x 800.0 mm

Environmental Characteristics

Operation Environment

Parameter	Value
Temperature	-20 °C ~ +65 °C
Humidity	5% ~ 95%

Storage environment

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

VSWR

Frequency (MHz)	VSWR
900 MHz	1.32
902 MHz	1.33
930 MHz	1.47

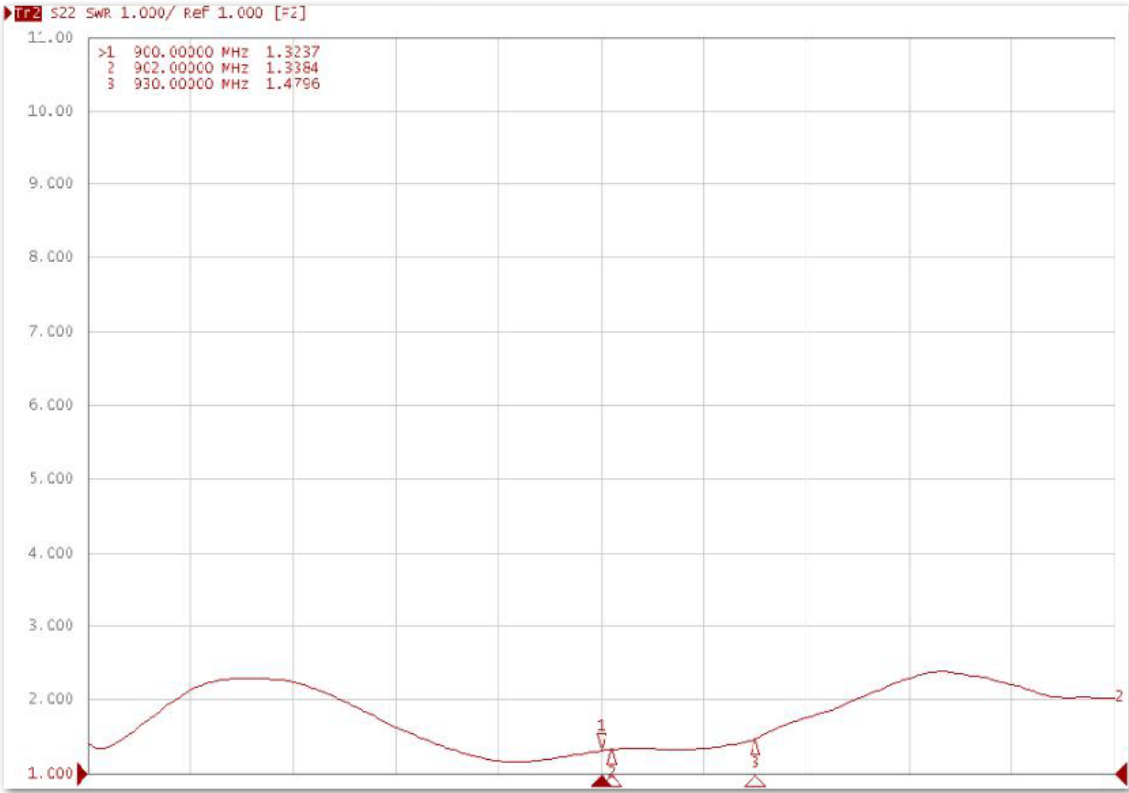


Figure 2: RAKARG14 VSWR Graph

Peak Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)
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Frequency (MHz)	Gain (dBi)	Efficiency (%)
902	5.4	74.02
904	5.6	76.58
906	5.6	76.34
908	5.6	74.85
910	5.5	74.11
912	5.6	74.09
914	5.7	76.16
916	5.7	78.27
918	5.8	79.42
920	5.7	79.10
922	5.6	77.99
924	5.8	76.85
926	5.8	76.56
928	5.7	77.45
930	5.7	78.16
Average:		71.73

Radiation Patterns

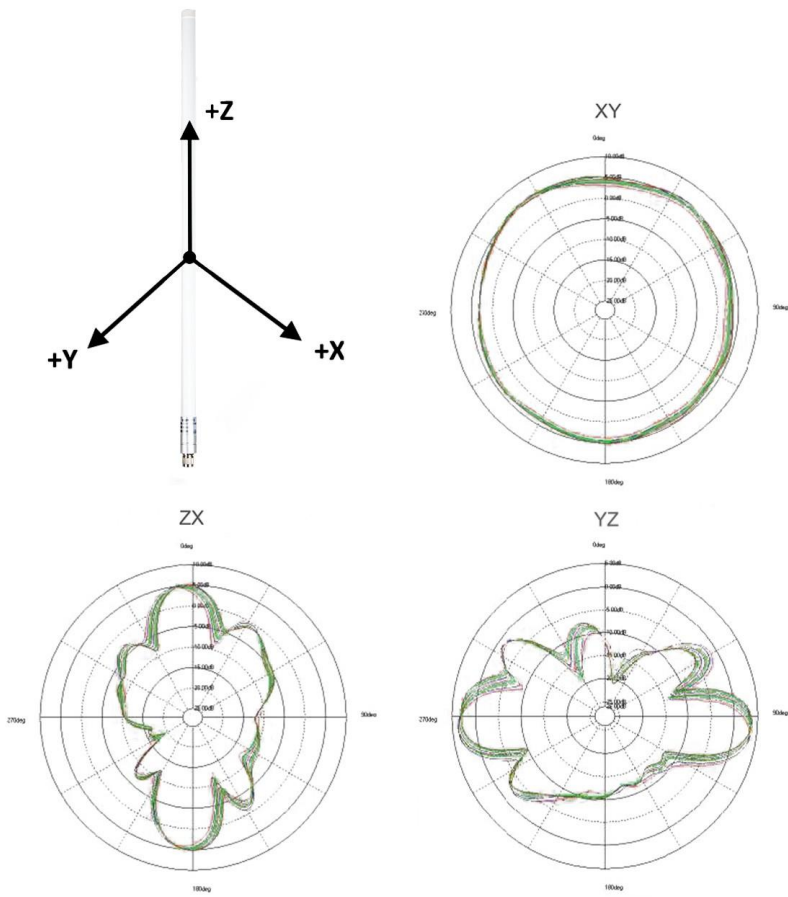


Figure 3: RAKARG14 Radiation Patterns

Mechanical Characteristics

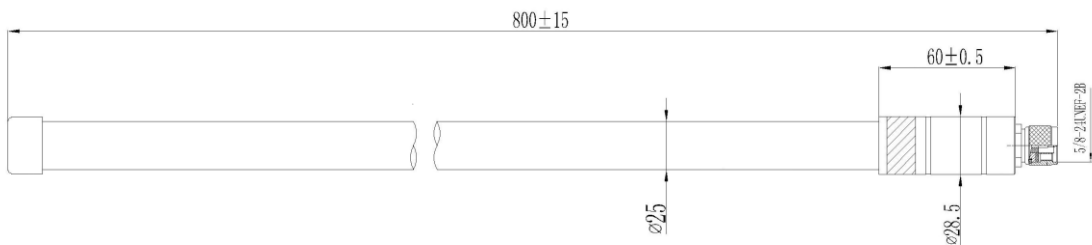


Figure 4: RAKARG14 Mechanical Characteristics