902-928 MHz 5 dBi Fiber Glass Antenna (RAKARG14) Datasheet

Features

- Frequency range: 902 ~ 930 MHz
- Max gain: 5.8 dBi
- VSWR: ≤ 2.0
- Radom body: Fiberglass
- High efficiency
- Radome body: fiberglass
- Vertically polarized dipole
- Omni-directional
- Easy to mount with the included Installation kit
- Outdoor use

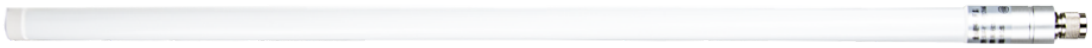

Figure 1: RAKARG14 overview

Specifications

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Parameter	Value
Model	RAKARG14
Frequency range	902 ~ 930 MHz
Peak gain	5.8 dBi
VSWR	≤ 2.0
Efficiency	≤ 79%
Feed impedance	50 Ohms
Radiation pattern	Omni-directional
Polarization	Vertical
Cover material (color)	Fiberglass (white)
Connector type	N-type male
Dimensions (mm)	Φ 29.8 mm x 800.0 mm
Operation temp (°C)	-20 °C ~ +65 °C
Storage temperature	-30 °C ~ +75 °C
Humidity range	5% ~ 95%

VSWR

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

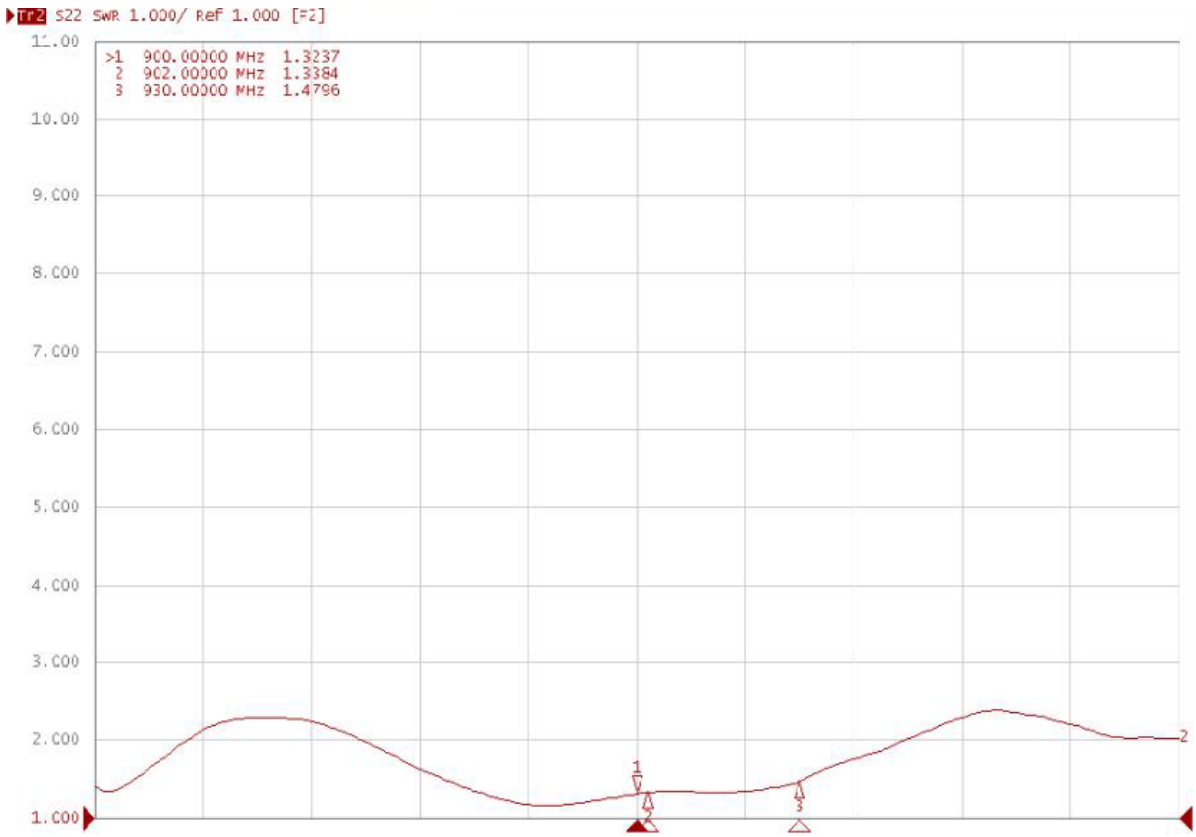

Figure 2: RAKARG14 VSWR graph

Peak Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)
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	6.0	78.27
918	6.1	79.42
920	6.0	79.10
922	5.9	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

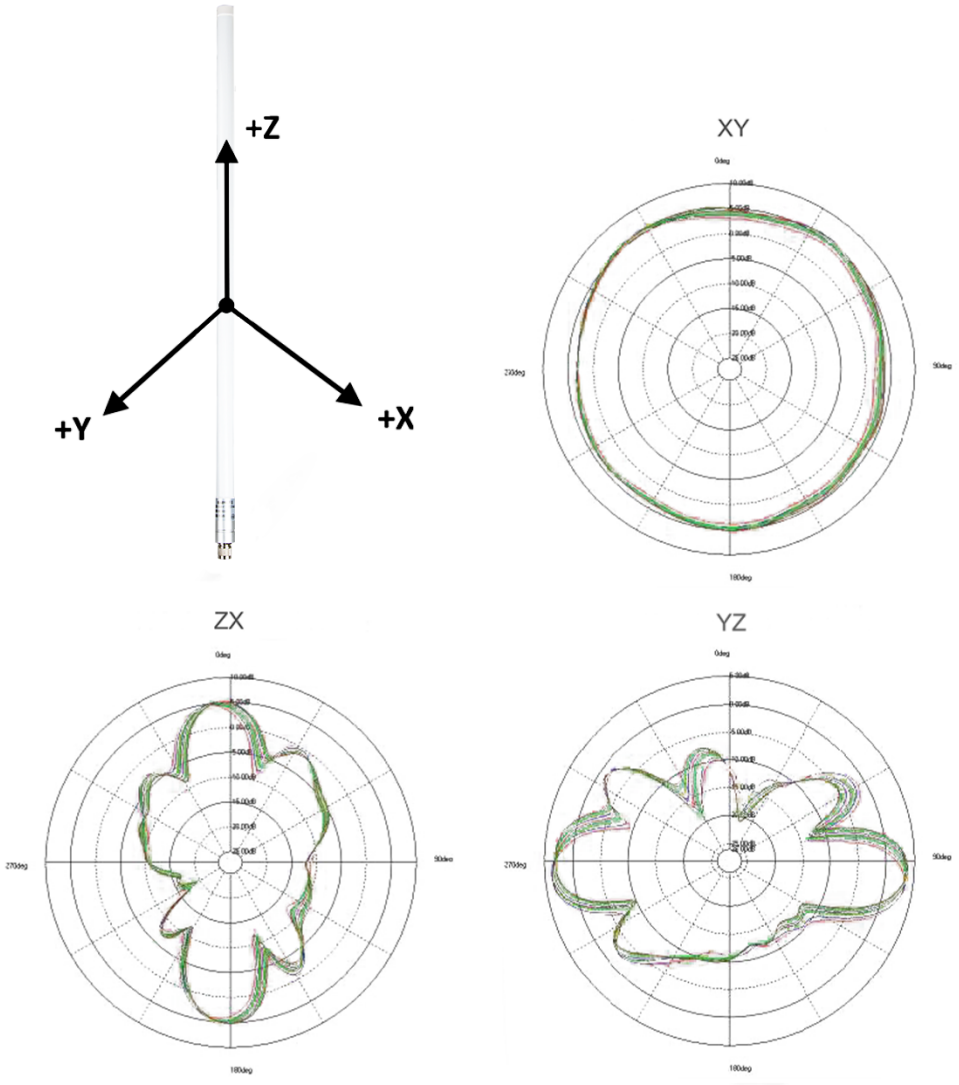

Figure 3: RAKARG14 radiation patterns

Mechanical Specifications

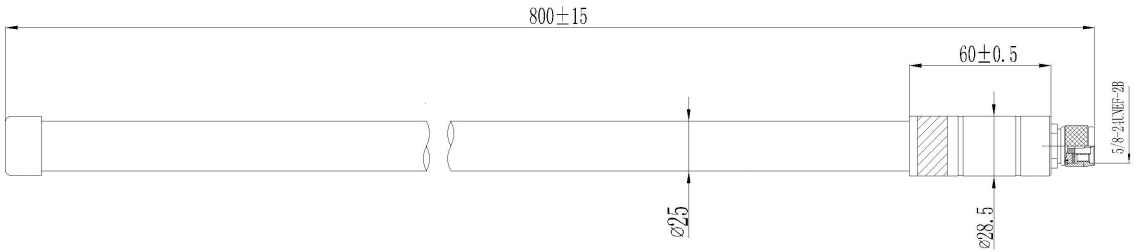

Figure 4: RAKARG14 mechanical specifications