

**Description: 1.6dBi, 217-222MHz**  
**With mounting hardware**

**Series: Radome Omni**

**PART NUMBER: RO2202NFKIT**



**Features:**

- Kit of Antenna + Bracket
- Omnidirectional antenna
- Gain 1.6dBi
- Polarization Vertical
- Connector N-female
- IP67
- Bracket mounts to either Horizontal or Vertical pipe

**Applications:**

- 217-222MHz Radios
- Utilities
- SCADA Railway / PTC
- IoT

Issue: 1911

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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### ELECTRICAL SPECIFICATIONS

Antenna type	1/2 wave (ground plane, not required)
Frequency	217-222 MHz
Nominal Impedance	50 $\Omega$
VSWR	1.5:1
Gain	1.6 dBi
Efficiency	90%
Radiation Pattern	Omni
HPBW / E-Plane	81°
Polarization	Vertical
Power withstanding	40 W
Connector type	N-Female

### MECHANICAL SPECIFICATIONS

Overall Length	837.9mm
Weight	478g
Antenna Color / Material	White/Polyester/fiberglass–UV protected
Mounting hardware	Cast aluminum bracket , V-bolts, nuts & washers

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85° C
Ingress Protection	IP67
Wind-loading	202.2 km/h (125 mph)
RoHS Compliant	Yes

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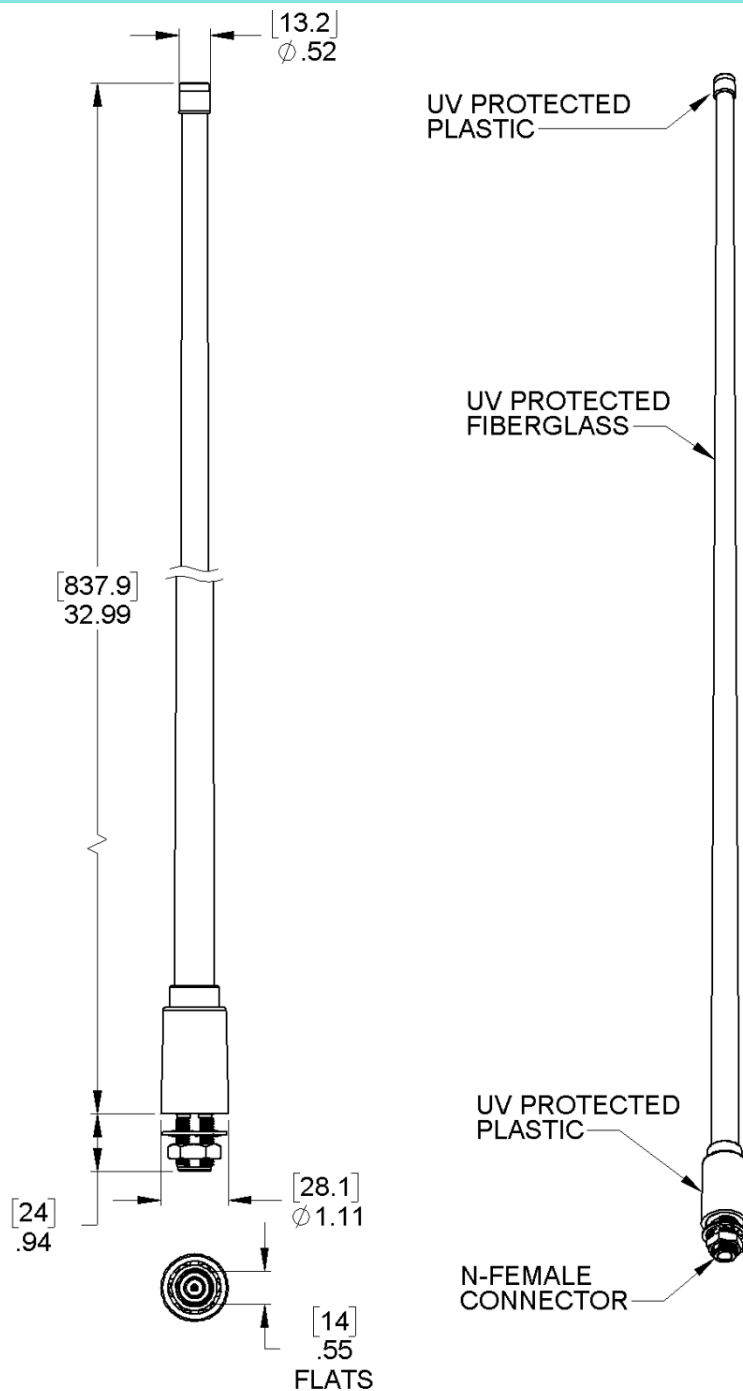
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## MECHANICAL DRAWING



All dimensions are in mm / inches

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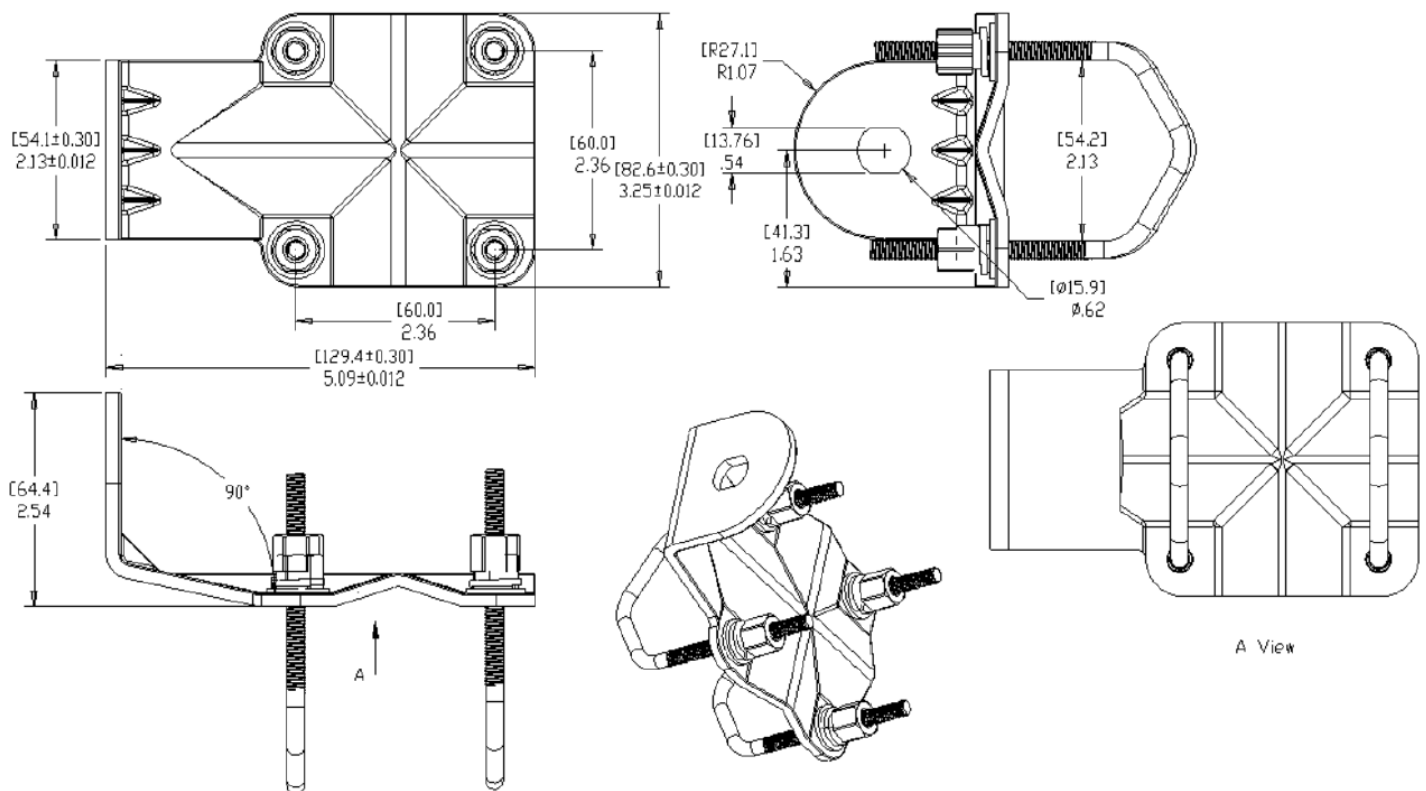
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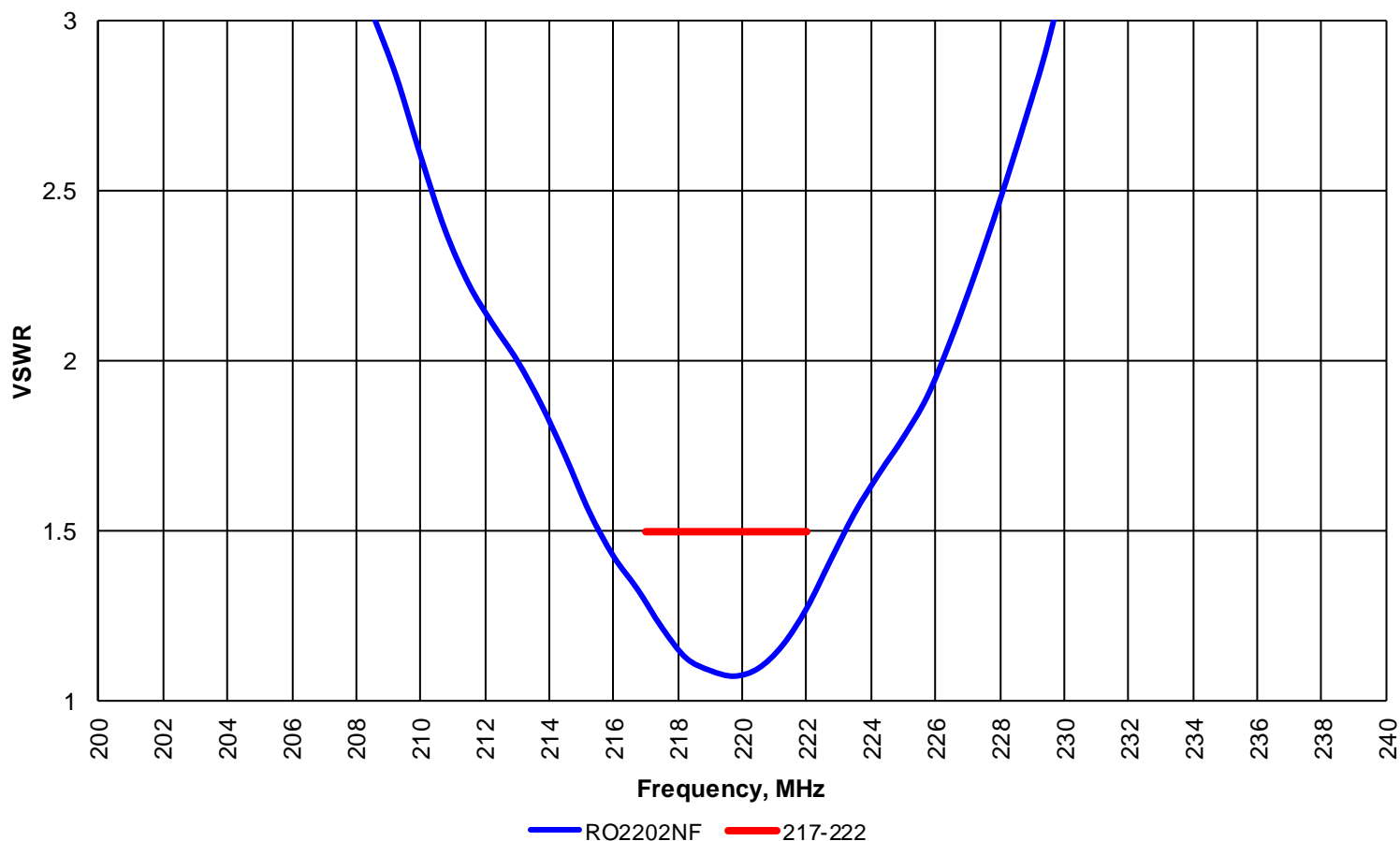
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## CHARTS

### VSWR vs Frequency RO2202NF

Measured at Pulse, USA - July 30, 2018



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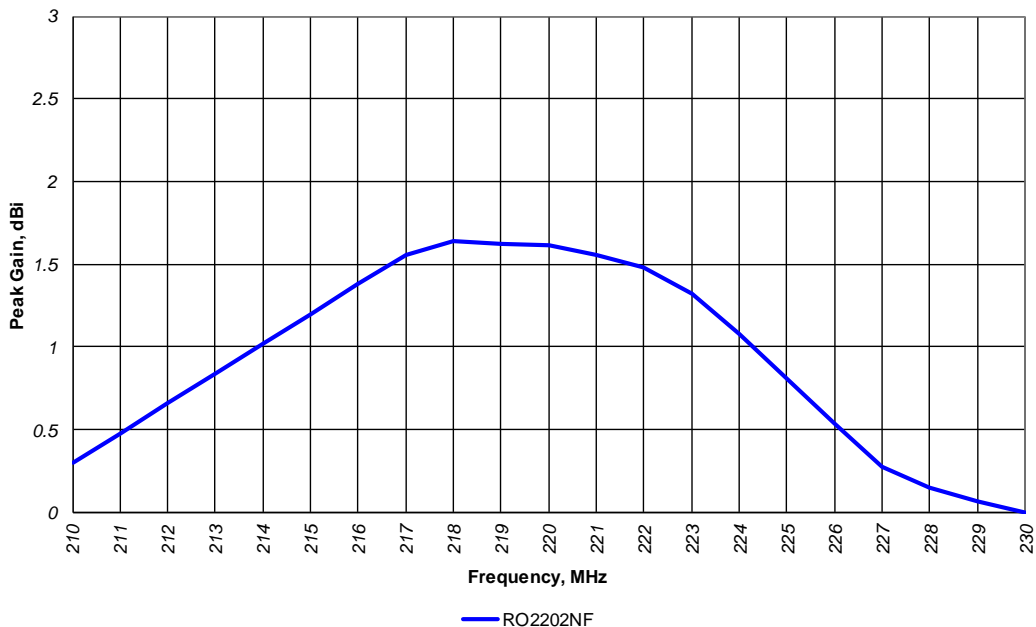
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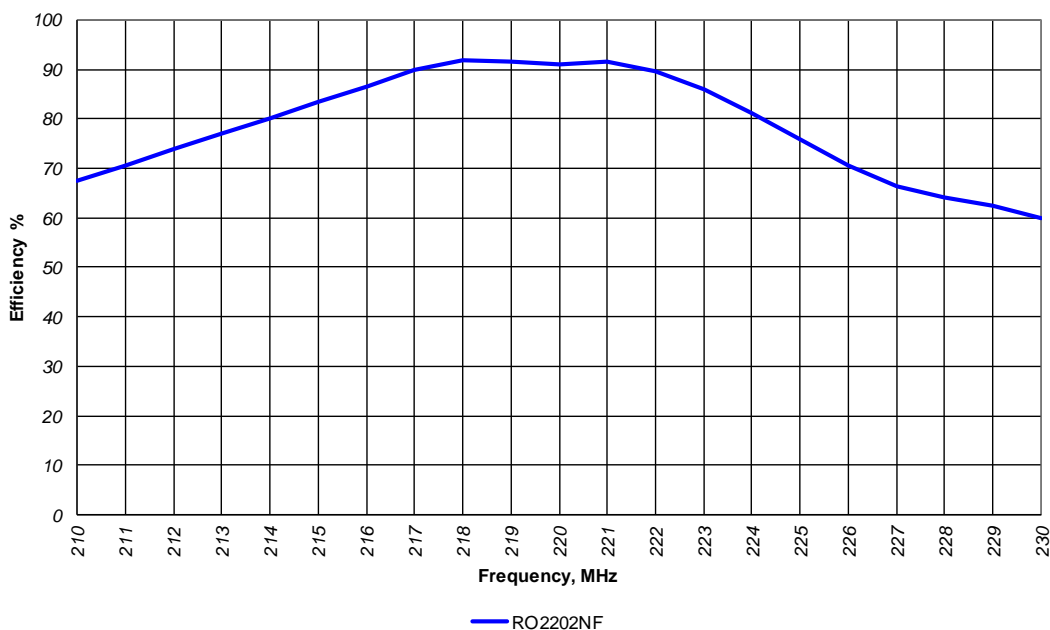
**Peak Gain vs Frequency**  
**RO2202NF**

Measured at Pulse, USA - July 30, 2018



**Efficiency vs Frequency**  
**RO2202NF**

Measured at Pulse, USA - July 30, 2018



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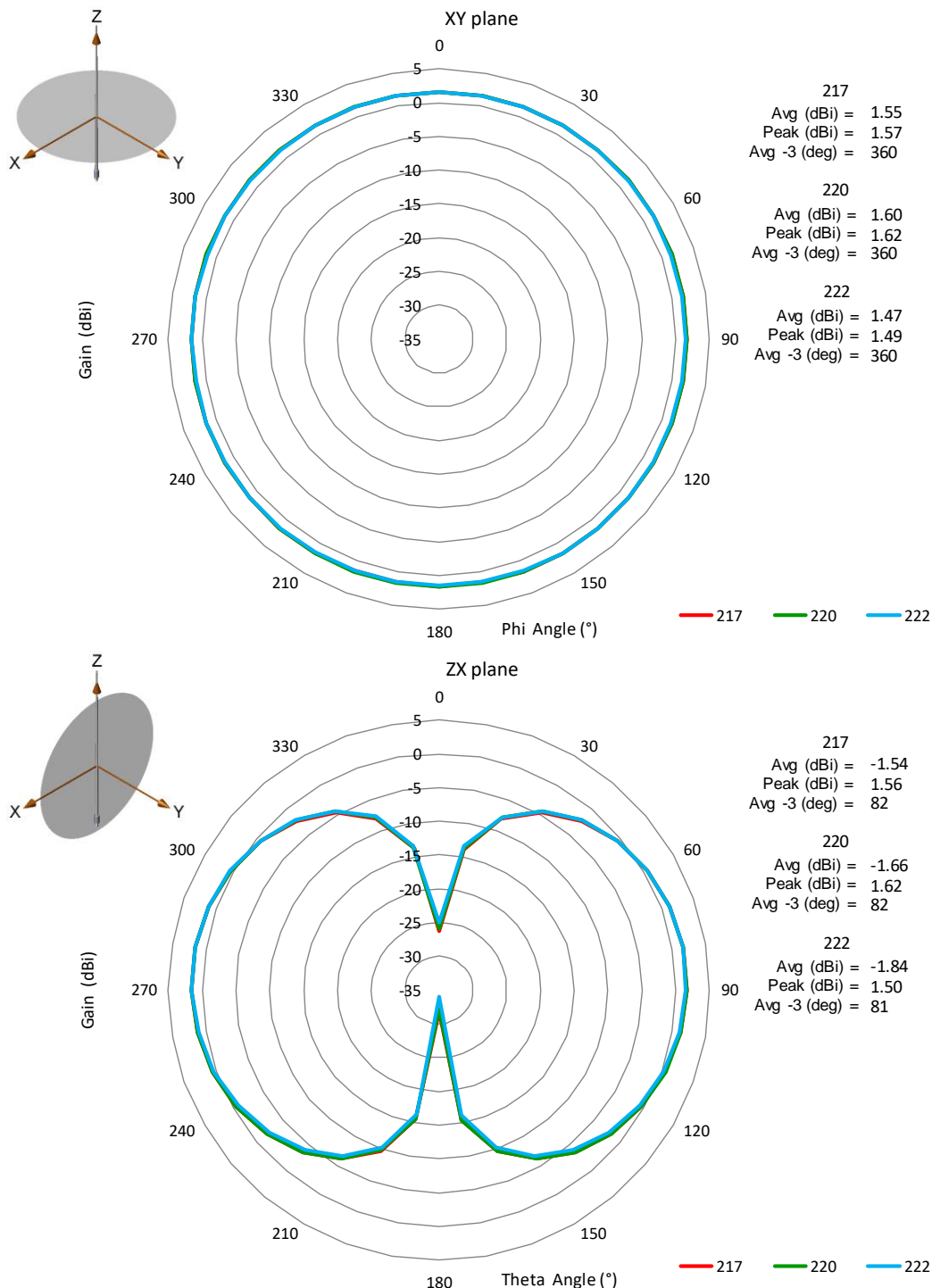
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## PACKAGING

1 cardboard box containing:

- 1 plastic bag containing bracket kit
- 1 plastic bag containing antenna placed in foam supports
- 1 label on plastic bag with part number, date code.



# Mouser Electronics

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