

Description: 1.6dBi, 217-222MHz

Series: Radome Omni

PART NUMBER: RO2202NF



### Features:

- Omnidirectional antenna
- Gain 1.6dBi
- Polarization Vertical
- Connector N-female
- IP67

### Applications:

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

Issue: 1850

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

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Tel: 86 512 6807 9998



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**ELECTRICAL SPECIFICATIONS**

|                    |   |
|--------------------|---|
| Antenna type       | 1/2 wave<br>(ground plane not required) |
| Frequency          | 217-222 MHz                             |
| Nominal Impedance  | 50 Ω                                    |
| 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                                | 247g                          |
| Antenna Color / Material<br>protected | White/Polyester/fiberglass-UV |

**ENVIRONMENTAL SPECIFICATIONS**

|                       |                      |
|-----------------------|----------------------|
| Operating Temperature | -40 ~ +85° C         |
| Ingress Protection    | IP67                 |
| Wind-loading          | 201.2 km/h (125 mph) |
| RoHS Compliant        | Yes                  |

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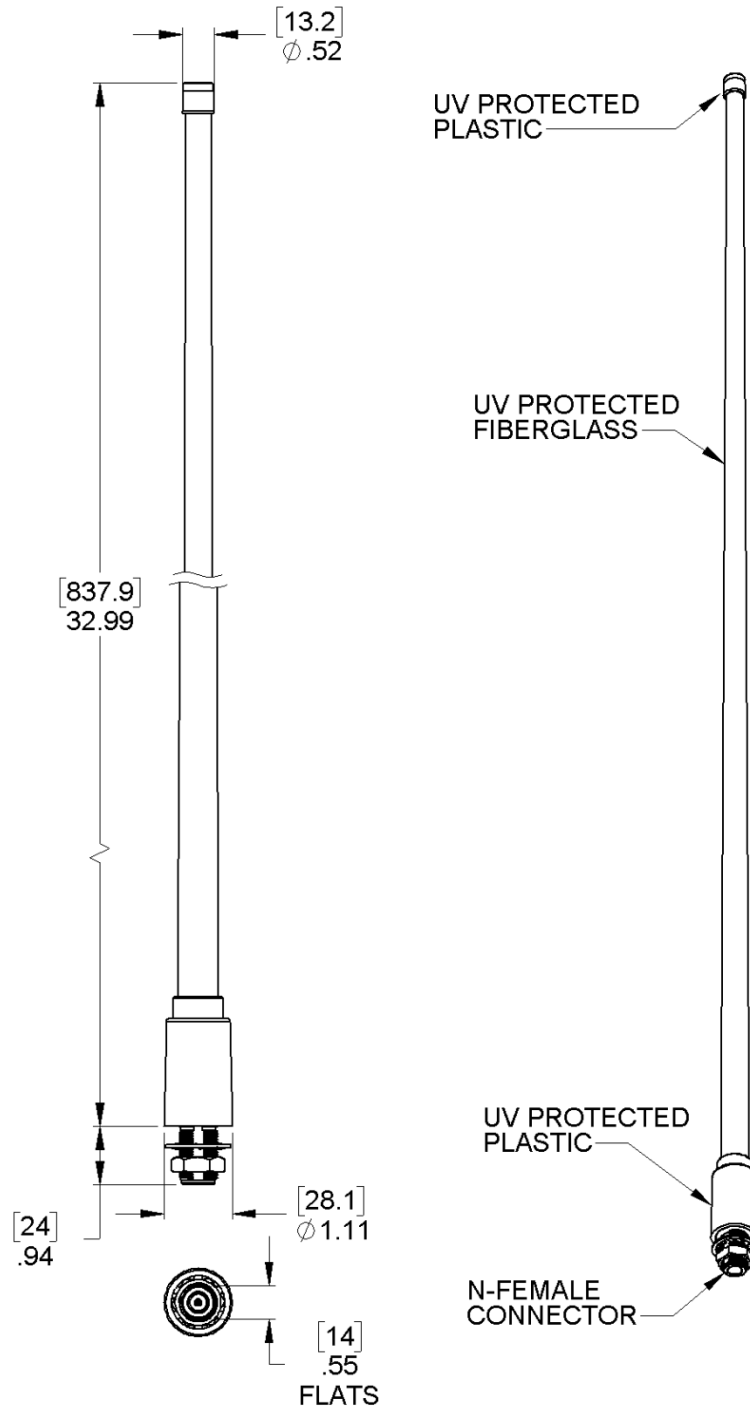
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MECHANICAL DRAWING



All dimensions are in mm / inches

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Description: 1.6dBi, 217-222MHz

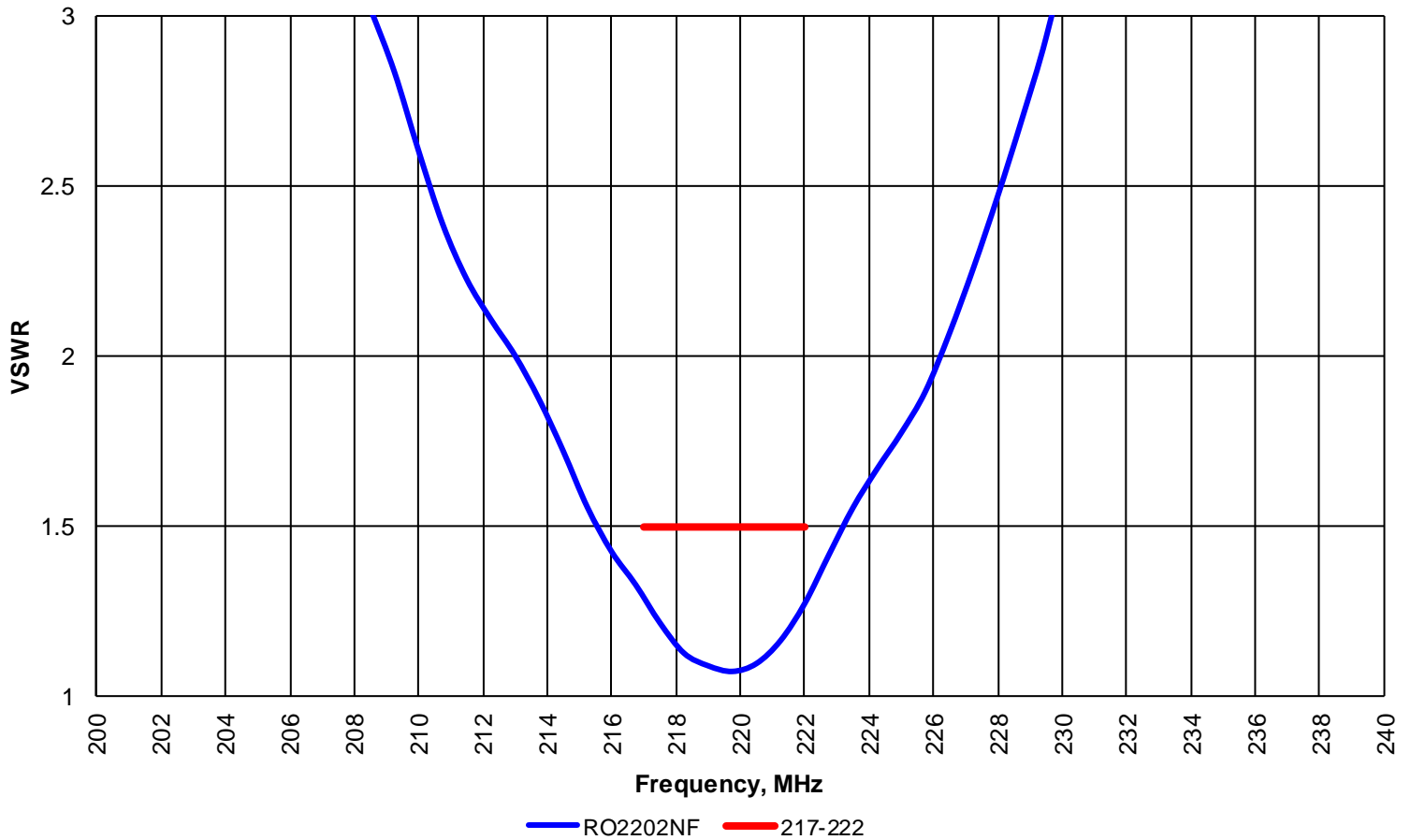
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CHARTS

VSWR vs Frequency  
RO2202NF

Measured at Pulse, USA - July 30, 2018



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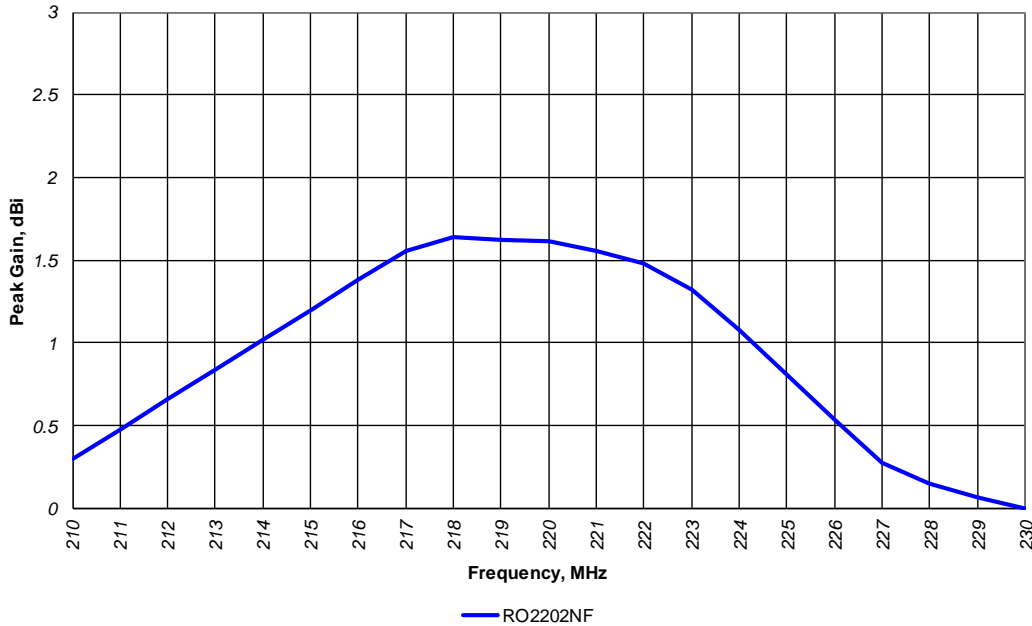
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CHARTS

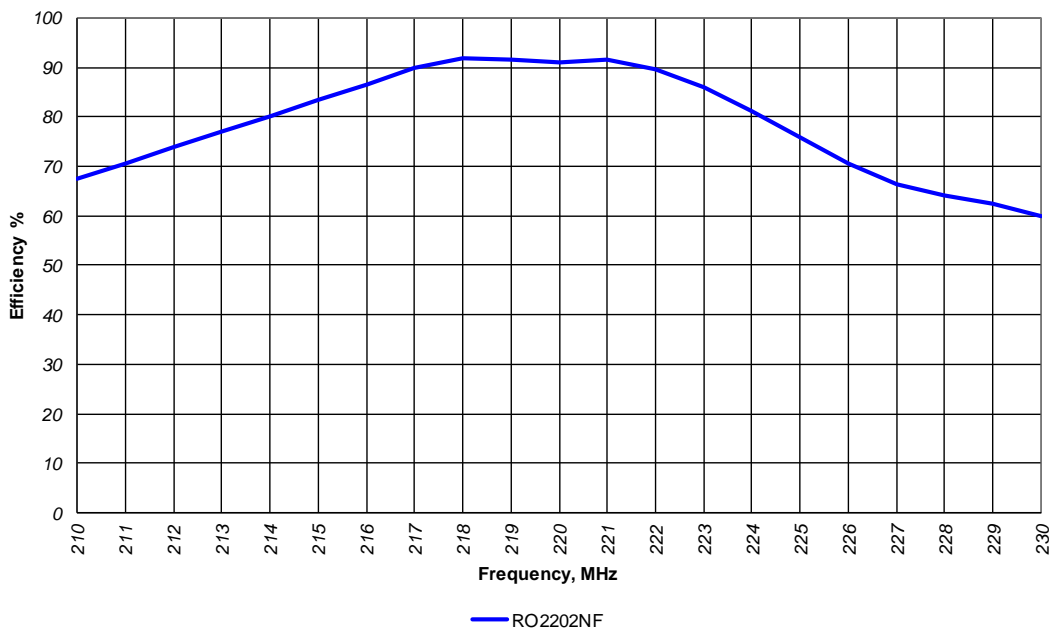
Peak Gain vs Frequency  
RO2202NF

Measured at Pulse, USA - July 30, 2018



Efficiency vs Frequency  
RO2202NF

Measured at Pulse, USA - July 30, 2018



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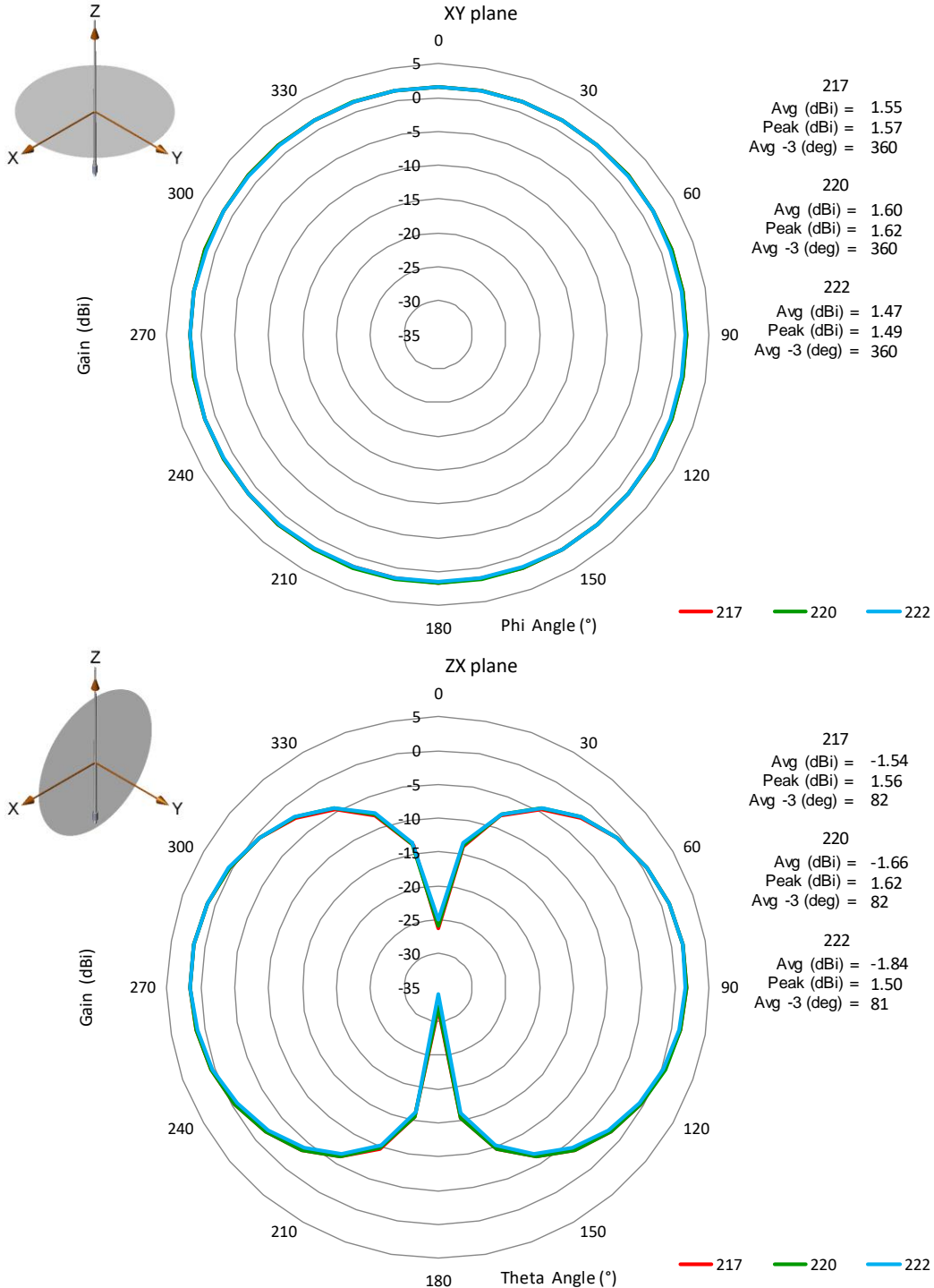


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## PACKAGING

1 antenna packed in a plastic bag

1 label on each plastic with part number, description, date code.