





Outdoor  
*Radome Omni – Omni directional Antenna*  
 RO700/2700NM – 698 to 2700 MHz



*Features & Applications:*

-  698-960/1710-2170/2400-2700MHz
-  Utility boxes
-  Smart metering
-  IoT Devices

**Electrical specifications @ 25° C**

**Frequency Bands – 698-960/1710-2170/2400-2700 MHz**

Antenna type <sup>2</sup>	Nominal Impedance	Polarization	Radiation pattern	Power withstanding	DC Ground
Dipole	50Ω	Vertical	Omni	20W	No

Frequency (MHz)	698-960	1710-2170	2400-2700
<b>VSWR</b>	2:1	2:1	2:1
<b>Average Peak Gain (dBi)</b>	0.0	0.42	1.2
<b>Average Efficiency (%)</b>	48	53	58
<b>HPBW Vertical Plane (°)</b>	50	50	60

**Mechanical Specifications**

**RO700/2700NM**

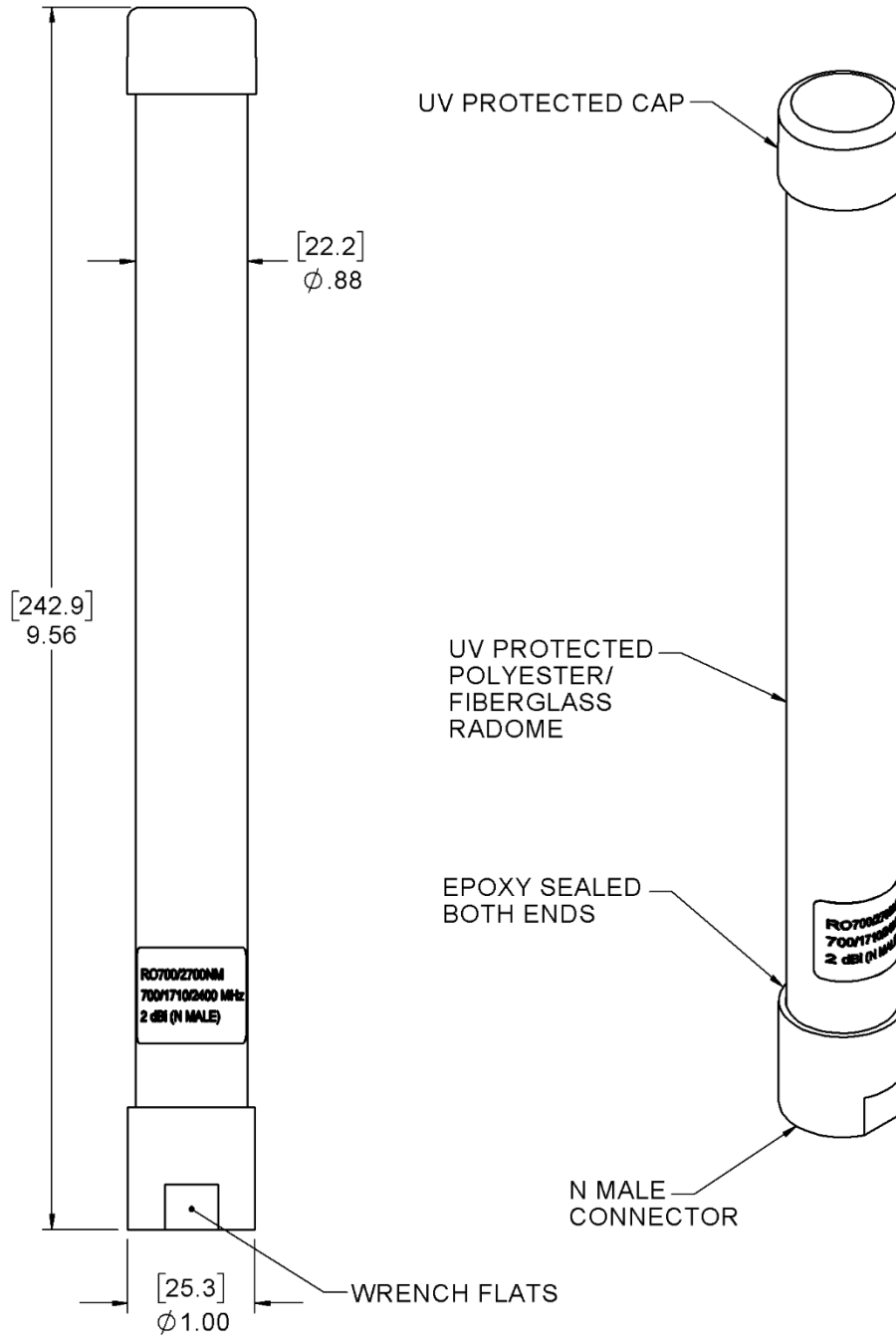
Size (Diameter x Height)	Color	Weight	Connector Type	Fixing System <sup>3</sup>
25.4 (1.0") x 242.9 (9.56") mm	White	120grms (0.27lbs)	N-Male	Direct Mount
Housing Material	Operating Temperature	Ingress Protection	Side Loading @ 1 ft	RoHS-6 Compliant
Fiber glass, UV Protected	-40°C to +85°C	IP67	30 lbs	Yes

Notes:

1. Storage Temperature: -40°C to 85°C
2. Measured in free space.
3. N-Female connector required (not included).

Mechanical Drawing

RO700/2700NM



**Dimensions:** Inches (mm)  
 Unless otherwise specified, all tolerances are ±.010 (0.25mm)

## Test Setup

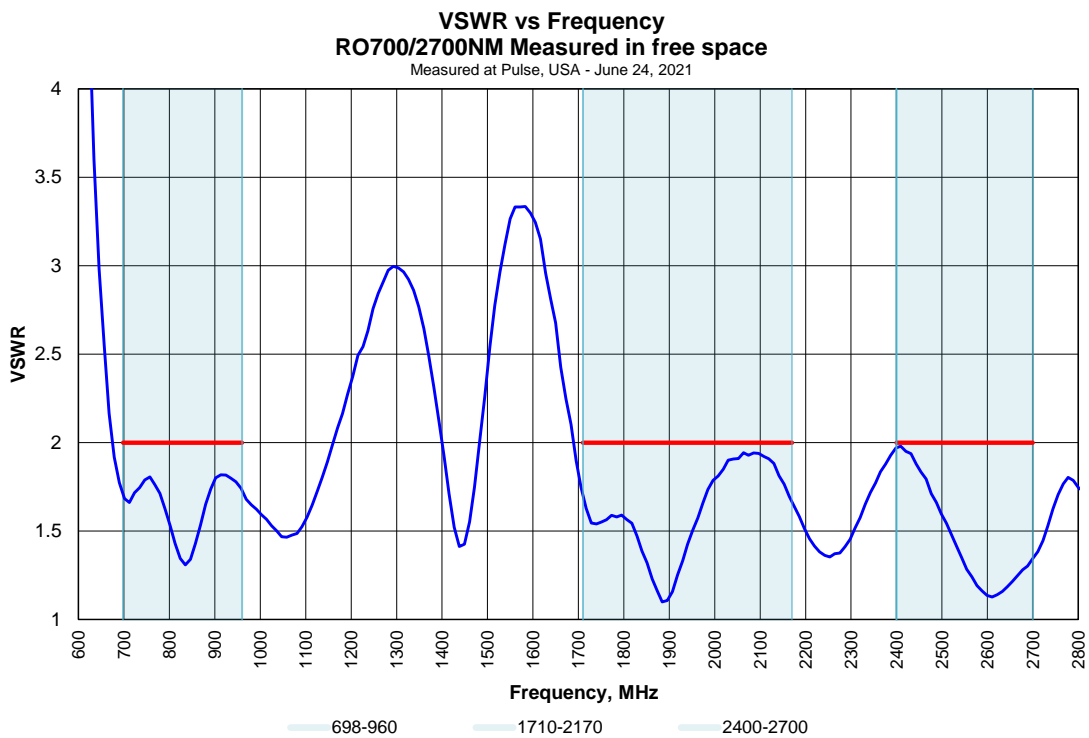
RO700/2700NM



RO700/2700NM antenna sample measured in free space

## Charts- VSWR

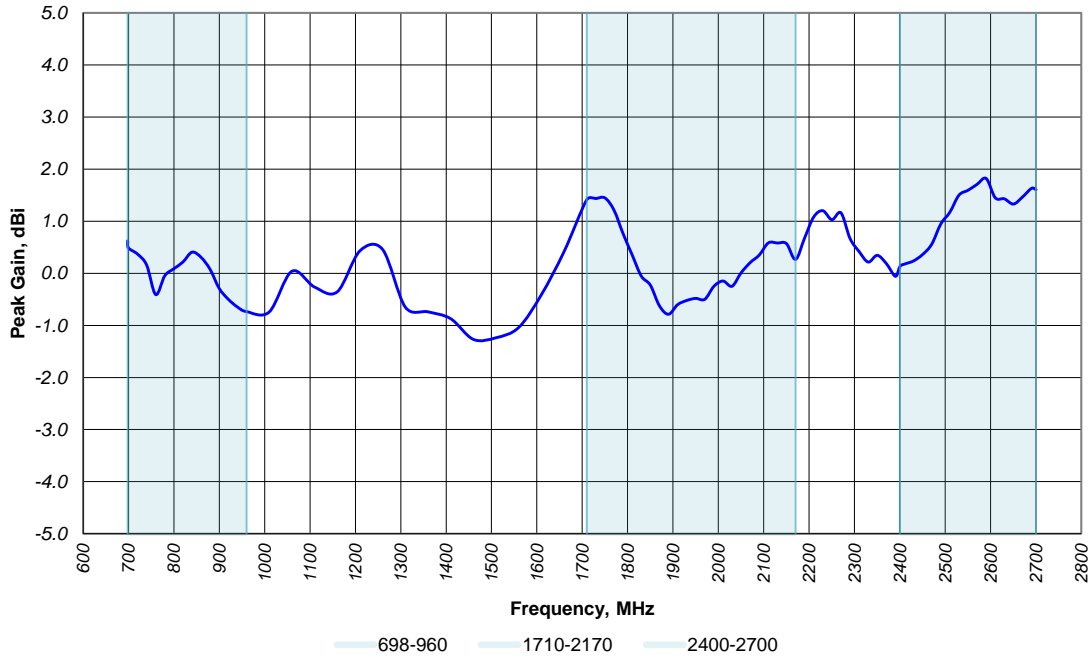
RO700/2700NM



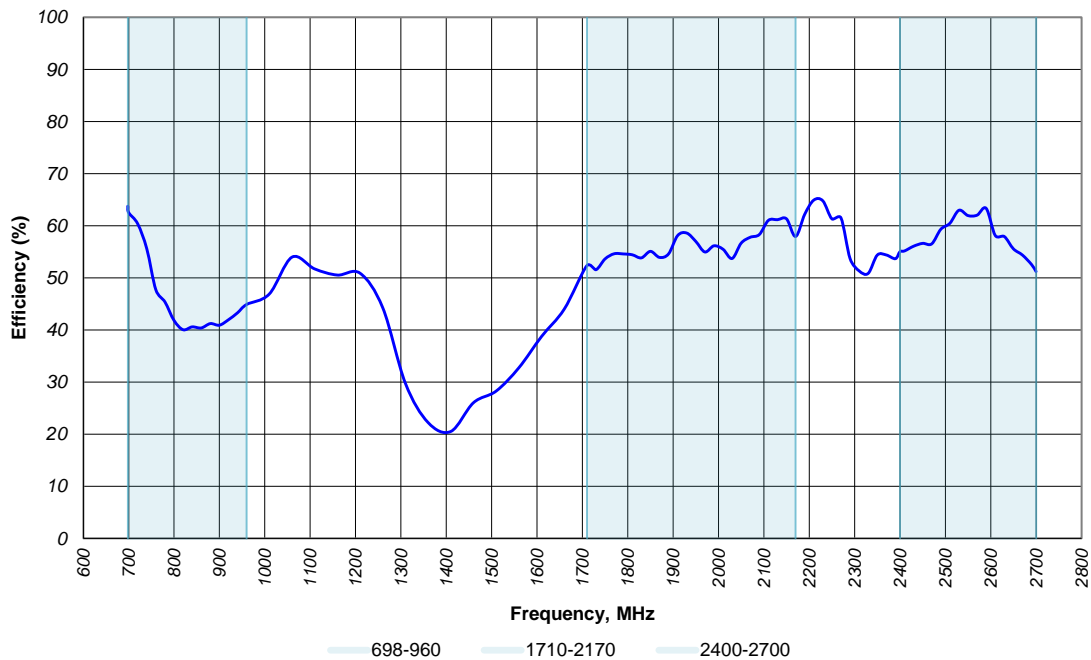
Charts- Peak Gain and Efficiency

RO700/2700NM

**Peak Gain vs Frequency**  
 RO700/2700NM Measured in free space  
 Measured at Pulse, USA - June 24, 2021

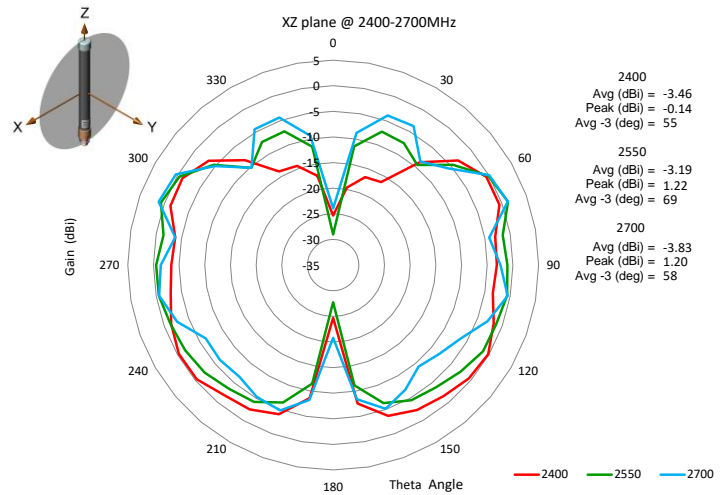
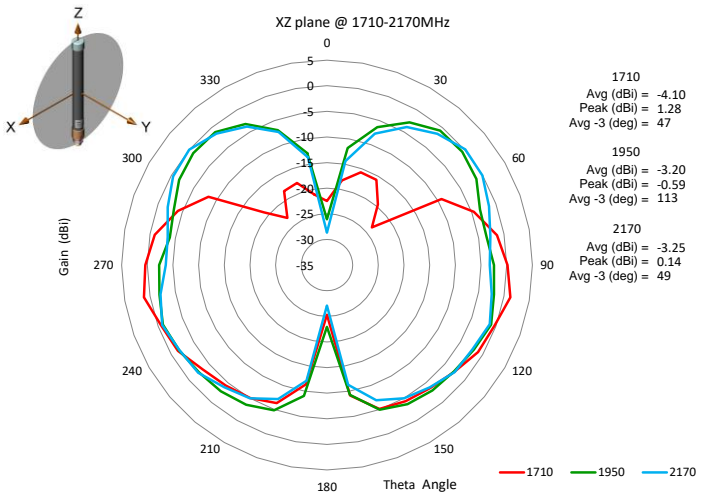
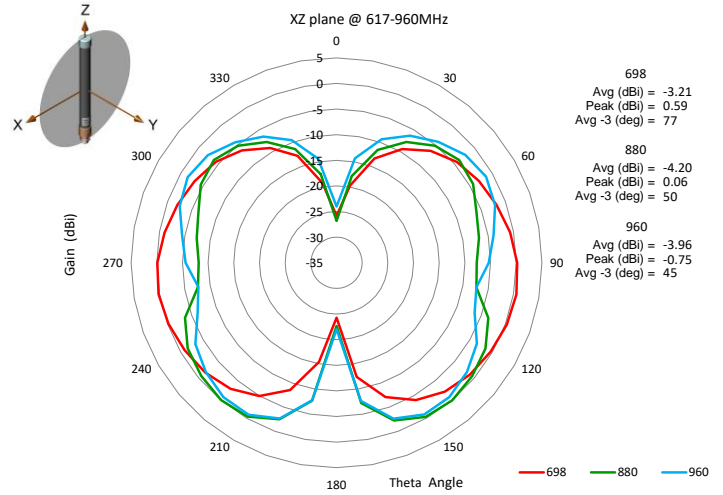
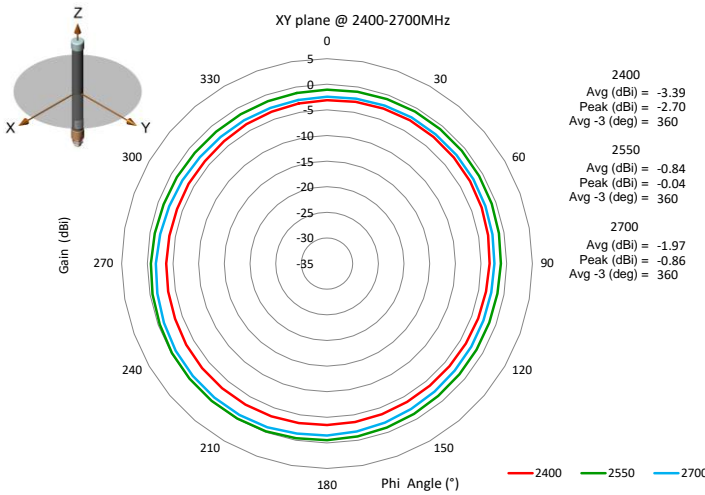
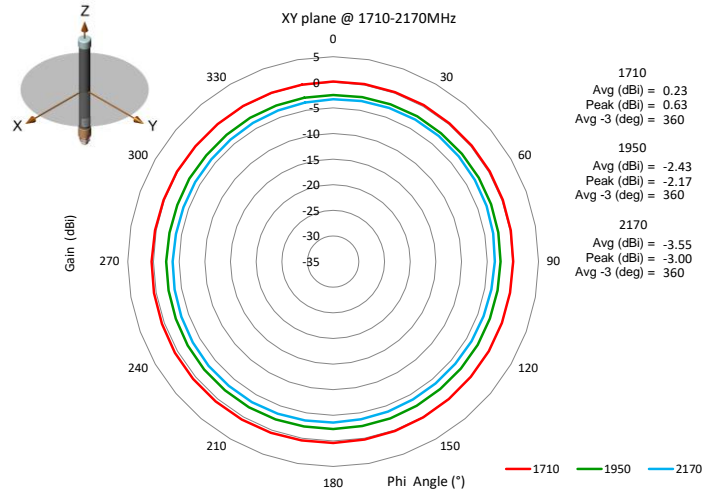
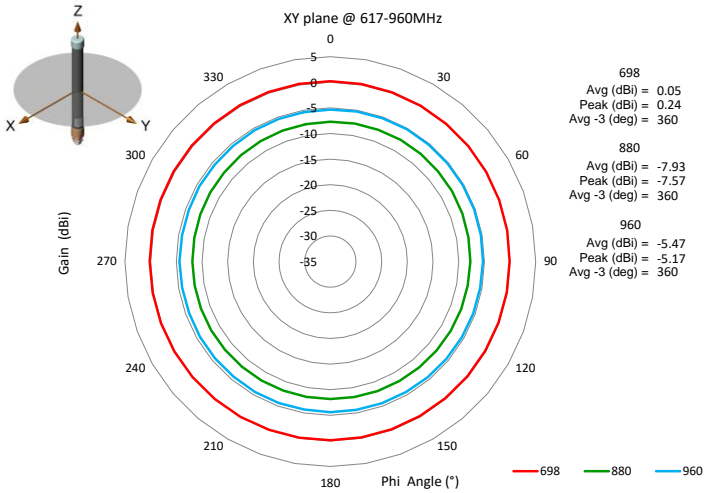


**Efficiency vs Frequency**  
 RO700/2700NM Measured in free space  
 Measured at Pulse, USA - June 24, 2021



Charts- XY and XZ Gain Plots

RO700/2700NM



## Outdoor

### *Radome Omni – Omni directional Antenna*

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## Packaging

RO700/2700NM

### **Packaging info:**

1 antenna packed in a plastic bag.

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

### Notes:

1. Please contact sales for availability, lead time, and/or any special requests. Samples available upon request.

### For More Information:

Americas - [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | Europe – [antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | Asia – [antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | Questions? +1-800-ANTENNA  
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