

# Outdoor 3G Radome Omni 4 dBi Antenna

Pulse Part Number RO8063/21704 Family



Pulse announces a new outdoor high gain radome omni antenna for 3G operations. The frequency range covers 806-960 and 1710-2170 MHz with peak gain levels of 3 and 4.5 dBi delivered in the lower and higher frequency bands respectively. The white Pultruded Fiberglass radome is 388 mm (15.3 inches) in height, UV protected and IP-67 rated. It has been tested to wind loading of 125 mph. The antenna is designed for installation on a mast or external wall using the FB2BRACKET or FB3BRACKET.

Key applications are femto cells, 3G repeaters and small base stations. Given the frequency range covered by the RO8063/21704, this antenna is also suitable for other global cellular bands such as GPRS, EDGE, HSDPA, GSM, UMTS.

#### Features

- Frequency Range 806-960/1710-2170 MHz
- Omni Directional with 4 dBi Gain
- UV Protected and IP-67 Rated
- RoHS Compliant Product

#### Applications

- 3G Repeaters
- Femto Cell
- Small Base Station

Part Number	Connector
RO8063/21704NM	N Male
RO8063/21704NF	N Female

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## Electrical Specifications

	Frequency 1 [MHz]	806-960
	Frequency 2 [MHz]	1710-2170
	Nominal Impedance [ $\Omega$ ]	50
VSWR	Freq 1	2.5:1
	Freq 2	2.5:1
Gain	Freq 1 [dBi avg]	3 Max
	Freq 2 [dBi avg]	4.5 Max
Polarization		Horizontal Omni
	Frequency 1	Vertical - 53°
	Frequency 2	Vertical - 39°
	Power Rating [W]	20
	Connector	N Male

## Environmental Specifications

Operating Temperature [°C]	-40 to +85
Storage Temperature [°C]	-40 to +85
Relative Humidity [%]	100

## Mechanical Specifications

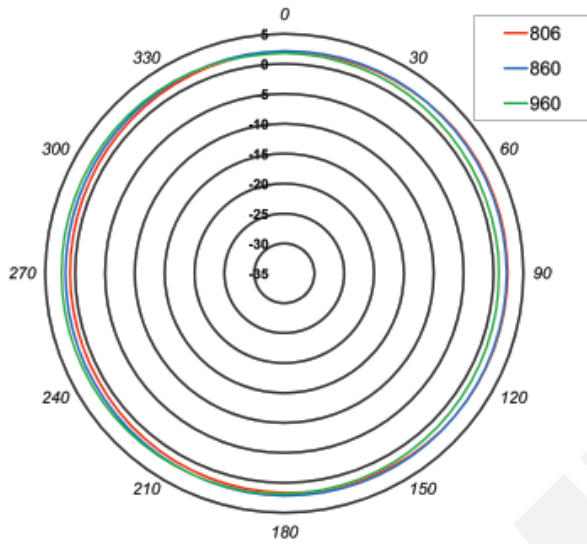
Radome Material	Pultruded Fiberglass
Color	Off White
Ingress Protection	IP-67
Weight [oz/g]	8 / 228
Wind-loading [Mph]	125
Dimensions [Inches/Meters]	1.45 x 15.3 / 36.9 x 338.9
Flammability Rating	UL94 HB

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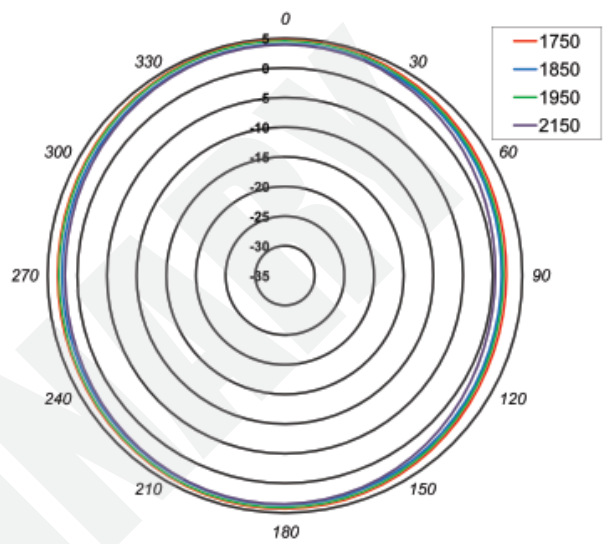
Pulse Part Number RO8063/21704 Family

## Radiation Patterns

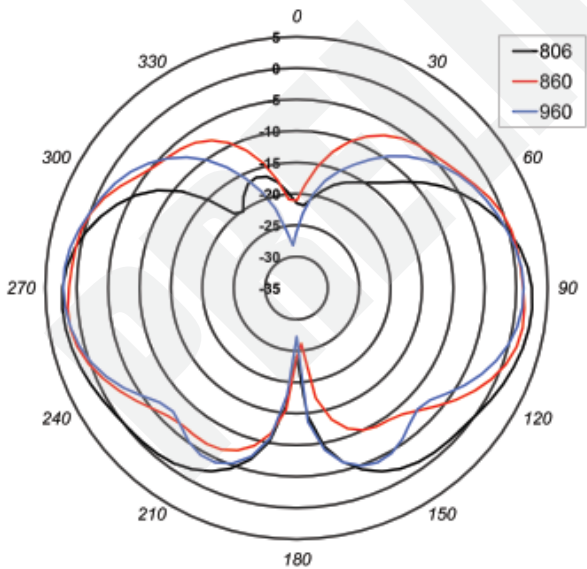
Horizontal Plane - 806-960 MHz



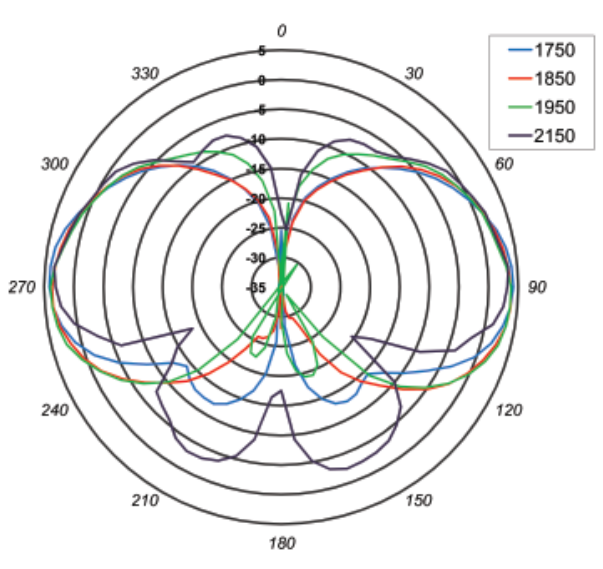
Horizontal Plane - 1710-2150 MHz



Vertical Plane - 806-960 MHz



Vertical Plane - 1710-2150 MHz



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