

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 [Ω] | 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

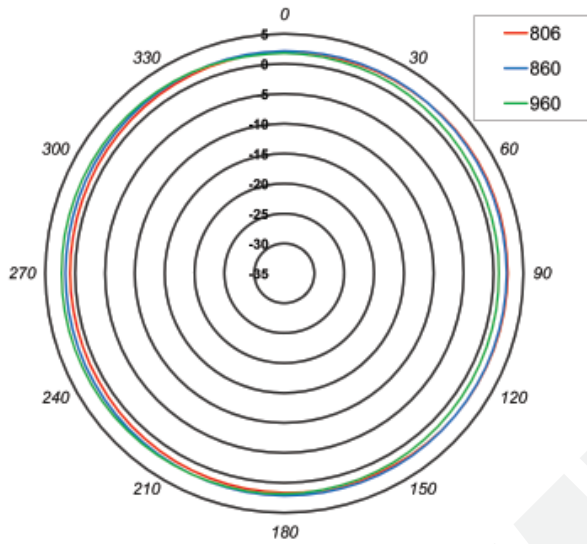
| | |
|----------------------------|-------------------------------|
| Radome Material | Pultruded Fiberglass |
| Color | Off White |
| Ingress Protection | IP-67 |
| Weight [oz/g] | 8 / 228 |
| Wind-loading [Mph] | 125 |
| Dimensions [Inches/Meters] | 1.45 x 15.3 / 36.9 x 338.9 |
| Flammability Rating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

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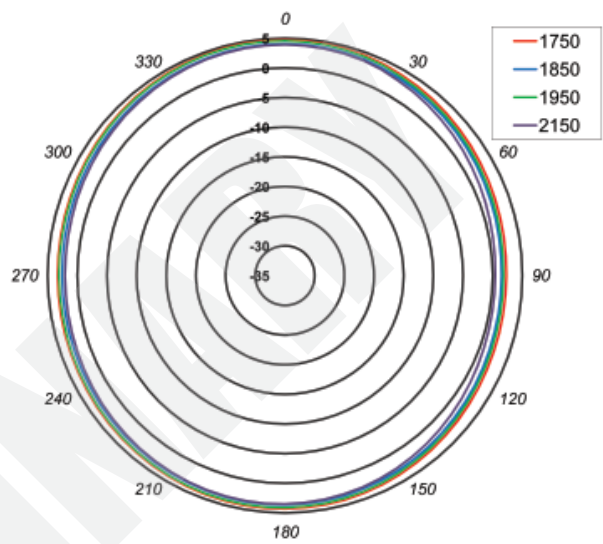
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Radiation Patterns

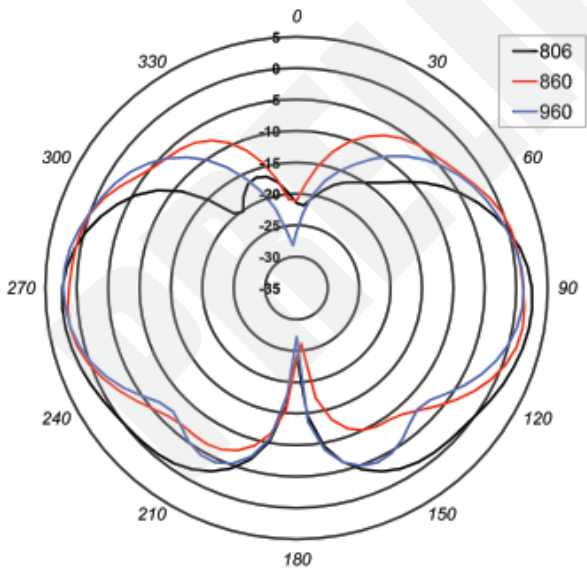
Horizontal Plane - 806-960 MHz



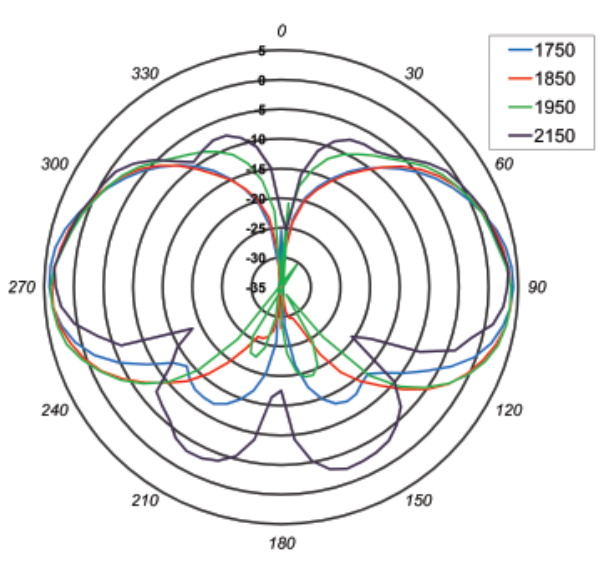
Horizontal Plane - 1710-2150 MHz



Vertical Plane - 806-960 MHz



Vertical Plane - 1710-2150 MHz



For More Information

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Larsen Brand Antennas

3611 NE 112th Avenue
Vancouver, WA 98682
USA

Europe Headquarters

Pulse GmbH & Co. KG
Zeppelinstrasse 15
Herrenberg
Germany

Asia Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg,
10th Kejian Road, High-Tech Zone
Nanshan District, Shenzhen, PR China 518057

Pulse North Asia

3F, No. 198, Zhongyuan Road
Zhongli City, Taoyuan County 320
Taiwan R. O. C.

Pulse (Suzhou) Wireless Products Co., Inc.

99 Huo Ju Road, (#29 Bldg, 4th Phase)
Suzhou New District
Science & Tech Industrial Park
Jiangsu Province, Suzhou 215009 PR China

Tel: 858 674 8100
Fax: 858 674 8262

Tel: 360 944 7551
Fax: 369 944 7556

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Tel: 86 755 33966678
Fax: 86 755 33966700

Tel: 886 3 4356768
Fax: 886 3 4356823

Tel: 86 512 6807 9998
Fax: 86 512 6809 8023

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