

# FM51222 DATA SHEET

## 698-960 MHz / 1710-2700 MHz / 3400-4200 MHz Low PIM Rated Indoor VH-pol Omni Antenna, 3-5 dBi, Ceiling Mount, 2 x Type N Female Connector

The MIMO ceiling mount omnidirectional FM51222 antenna from Fairview Microwave is a high performance, low PIM rated RF component which operates from 698 to 4200 MHz. The FM51222 antenna is ideal for 5G, LTE, CDMA, LPWAN/IoT/M2M applications including LoRA, LTE-M, NB-IOT and Distributed Antenna System (DAS) Networks. The Multi-Band design of the Fairview Microwave FM51222 antenna can be used for a wide array of in-building wireless applications where wide coverage is desired. Fairview Microwave's FM51222 can be used to distribute Cellular and WiFi signals throughout a building or area.

The Type N connectorized FM51222 antenna with V/H polarization from Fairview Microwave provides Passive Intermodulation (PIM) ratings better than -150 dBc. The key to providing the best performance in telecommunications is to ensure the components used are low PIM rated. The 698-4200 MHz FM51222 with 5 dBi max gain helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices.

The Type N connectorized FM51222 antenna from Fairview Microwave excels in large open areas such as indoor courtyards, indoor sporting venues, convention centers and shopping malls. The mounting bracket and hardware are included for easy installation. Fairview Microwave MIMO ceiling mount omnidirectional with Type N female purchases will ship the same day. Our FM51222 antenna is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide.

## Configuration

Design
Frequency Range
Gain
Polarization
Connector Type
Interface 2
Number of Ports

Ceiling
698 to 4200 MHz
3 to 5 dBi
Vertical/Horizontal
N Female
N Female
2

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Impedance		50		Ohms
Gain		3		dBi
Gain			5	dBi
Input Power			50	Watts
Passive Intermodulation 3rd Order, 2 x 20 W		-150		dBc

#### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.698-0.806	0.806-0.96	1.71-2.7	3.4-4.2		GHz
Port to Port Isola	tion 17	17	20	25		dB
Gain	3	3.5	4.5	5		dBi
Horiz. Beam Width	n 360	360	360	360		Degrees



## Features:

- Low Passive Intermodulation (PIM) <-150 dBc @ 2x20W</li>
- Vertical + Horizontal Polarization for MIMO
- Two N Female connector with 12 inch pigtails
- Covers 5G, WiFi and LTE frequency bands including extended CBRS

## Applications:

- Indoor distribution of 5G, LTE, GSM/CDMA
- In-building public or private networks
- LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- IoT, IoT, M2M applicationsDAS
  (DistributedAntennaSystems)
- · Ceiling Mounts

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Vert. Beam Width	90	85	45	35	Degrees
VSWR	2:1	2:1	2:1	2:1	

**Mechanical Specifications** 

Radome Material ABS

Size

 Length
 8.58 in [217.93 mm]

 Width
 8.58 in [217.93 mm]

 Height
 1.57 in [39.88 mm]

 Weight
 1.1 lbs [498.95 g]

**Environmental Specifications** 

**Temperature** 

Operating Range -55 to +60 deg C

Humidity < 95

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

698-960 MHz / 1710-2700 MHz / 3400-4200 MHz Low PIM Rated Indoor VH-pol Omni Antenna, 3-5 dBi, Ceiling Mount, 2 x Type N Female Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 698-960 MHz / 1710-2700 MHz / 3400-4200 MHz Low PIM Rated Indoor VH-pol Omni Antenna, 3-5 dBi, Ceiling Mount, 2 x Type N Female Connector FM51222

URL: https://www.fairviewmicrowave.com/698-mhz-4200-mhz-indoor-4g-5g-wideband-omni-antenna-3-5-dbi-low-pim-dual-pol-2-x-n-female-connector-hq74205dpcupr-nf-p.aspx

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