

FM51224 DATA SHEET

617-960 MHz / 1350-2700 MHz / 3300-3800 MHz / 4900-6000 MHz Low PIM Rated HH-pol MIMO Omni Antenna, Low Profile, 2 x 4.3-10 Female Connector

The MIMO ceiling mount omnidirectional FM51224 antenna from Fairview Microwave is a high performance, low PIM rated RF component which operates from 617 to 6000 MHz. The FM51224 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 FM51224 antenna can be used for a wide array of in-building wireless applications where wide coverage is desired. Fairview Microwave's FM51224 can be used to distribute Cellular and WiFi signals throughout a building or area.

The 4.3-10 connectorized FM51224 antenna with 2xhorizontal 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 617-6000 MHz FM51224 with 6 dBi max gain helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices.

The 4.3-10 connectorized FM51224 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 4.3-10 female purchases will ship the same day. Our FM51224 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
617 to 6000 MHz
2.2 to 6 dBi
Linear/Horizontal
4.3-10 Female
4.3-10 Female
2

Electrical Specifications

Description	Min	Тур	Max	Units
Impedance		50		Ohms
Gain		1.5		dBi
Gain			6	dBi
Input Power			50	Watts
VSWR			1.8:1	
Passive Intermodulation 3rd Order, 2 x 20 W		-153		dBc

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617-0.96	1.35-1.55	1.69-2.7	3.3-3.8	4.9-6	GHz
Port to Port Isola	tion 16	18	20	30	30	dB
Gain	2.2	3.5	4.5	6	6	dBi



Features:

- Low Passive Intermodulation (PIM) <-153 dBc @ 2x20W
- Horizontal Polarization
- Low Profile ¾" thick antenna
- Low return loss, stable performance
- 4.3-10 Female connector for long lasting consistent results
- Covers all sub 6 GHz 5G frequency bands including 600 MHz and 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
- DAS (Distributed Antenna Systems)
- Discrete Ceiling Mounts

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VSWR 1.8:1 1.8:1 1.8:1 1.8:1 1.8:1

Mechanical Specifications

Radome Material ABS

Size

 Length
 10.47 in [265.94 mm]

 Width
 10.47 in [265.94 mm]

 Height
 0.71 in [18.03 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:

617-960 MHz / 1350-2700 MHz / 3300-3800 MHz / 4900-6000 MHz Low PIM Rated HH-pol MIMO Omni Antenna, Low Profile, 2 x 4.3-10 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: 617-960 MHz / 1350-2700 MHz / 3300-3800 MHz / 4900-6000 MHz Low PIM Rated HH-pol MIMO Omni Antenna, Low Profile, 2 x 4.3-10 Female Connector FM51224

URL: https://www.fairviewmicrowave.com/617-mhz-6000-mhz-indoor-5g-mimo-omni-antenna-1.5-6-dbi-low-pim-low-profile-hh-polarization-4.3-10-female-connector-hg65806dpcupr-4310f-p.aspx

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