

698-960 MHz / 1710-2700 MHz / 3400-4200 MHz
Low PIM Rated VH-pol MIMO Panel Antenna, 5-7 dBi,
Wall Mount, 2 x Type N Female Connector

The wall mount MIMO panel FM51FP1014 antenna from Fairview Microwave is a high performance, low PIM rated RF component which operates from 698 to 4200 MHz. The FM51FP1014 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 FM51FP1014 antenna can be used for a wide array of in-building wireless applications where wide coverage is desired. Fairview Microwave's FM51FP1014 can be used to distribute Cellular and WiFi signals throughout a building or area.

The Type N connectorized FM51FP1014 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 FM51FP1014 with 7 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 FM51FP1014 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 wall mount MIMO panel with Type N female purchases will ship the same day. Our FM51FP1014 antenna is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide.

Configuration

Design	Panel
Frequency Range	698 to 4200 MHz
Gain	5 to 7 dBi
Polarization	Vertical/Horizontal
Connector Type	N Female
Interface 2	N Female
Number of Ports	2

Electrical Specifications

Description	Min	Typ	Max	Units
Impedance		50		Ohms
Gain		5		dBi
Gain			7	dBi
Input Power			100	Watts
VSWR			2:1	
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	0.698-0.806	0.806-0.96	1.71-2.7	3.4-4.2		GHz
Gain	5	6	7	7		dBi
Horiz. Beam Width	80	80	65	35		Degrees


Features:

- Low Passive Intermodulation (PIM) < -153 dBc @ 2x20W
- Vertical + Horizontal Polarization
- Low return loss, stable performance
- 2 x Type N Female connector for long lasting consistent results
- 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
- MIMO DAS (Distributed Antenna Systems)
- Wall Mounts

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Vert. Beam Width	73	70	60	30	Degrees
VSWR	2:1	2:1	2:1	2:1	

Mechanical Specifications

Radome Material PVC

Size

Length 15.75 in [400.05 mm]
 Width 7.09 in [180.09 mm]
 Height 2.44 in [61.98 mm]
 Weight 3.3 lbs [1.5 kg]

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 VH-pol MIMO Panel Antenna, 5-7 dBi, Wall 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 VH-pol MIMO Panel Antenna, 5-7 dBi, Wall Mount, 2 x Type N Female Connector FM51FP1014](#)

URL: <https://www.fairviewmicrowave.com/698-mhz-4200-mhz-indoor-4g-5g-wideband-flat-panel-antenna-5-7-dbi-low-pim-vh-pol-2-x-n-female-connector-hg74207dppr-nf-p.aspx>

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TITLE

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PIM Rated VH-pol MIMO Panel Antenna, 5-7 dBi, Wall
Mount, 2 x Type N Female Connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOI FRANCES:

CABLE LENGTH (L) TOI FRANCES

.X = ±.2	[.508]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

$$\begin{aligned} L \leq 12 [305] &= +1 [25] / -0 \\ 12 [305] < L \leq 60 [1524] &= +2 [51] / -0 \\ 60 [1524] < L \leq 120 [3048] &= +4 [102] / -1 \\ 120 [3048] < L \leq 300 [7620] &= +6 [152] / -1 \\ 300 [7620] < L &= +5\%L / -0 \end{aligned}$$

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	A
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CAGE CODE	3EKF
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DRAWN BY
DZIN

ITEM NO.	FM51EP1014
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REV	A
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE	N/A
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