

### 698-960 MHz / 1350-2700 MHz / 3300-4200 MHz Low PIM Rated HH-pol MIMO Omni Low Profile Ceiling Antenna, 1.5-6 dBi, 2x4.3-10 Female Connector

The MIMO ceiling mount omnidirectional FM51227 antenna from Fairview Microwave is a high performance, low PIM rated RF component which operates from 698 to 4200 MHz. The FM51227 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 FM51227 antenna can be used for a wide array of in-building wireless applications where wide coverage is desired. Fairview Microwave's FM51227 can be used to distribute Cellular and WiFi signals throughout a building or area.

The 4.3-10 connectorized FM51227 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 698-4200 MHz FM51227 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 FM51227 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 FM51227 antenna is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide.

#### Configuration

Design	Ceiling
Frequency Range	698 to 4200 MHz
Gain	1.5 to 6 dBi
Polarization	Linear/Horizontal
Connector Type	4.3-10 Female
Interface 2	4.3-10 Female
Number of Ports	2

#### Electrical Specifications

Description	Min	Typ	Max	Units
Impedance		50		Ohms
Gain		1.5		dBi
Gain			6	dBi
Input Power			50	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	1.35-1.55	1.71-2.7	3.3-4.2	GHz
Port to Port Isolation	16	16	15	20	25	dB
Gain	1.5	2.2	3.5	4.5	6	dBi



#### Features:

- Low Passive Intermodulation (PIM) <-153 dBc @ 2x20W
- Horizontal Polarization
- Low Profile 3/4" thick antenna
- Low return loss, stable performance
- 4.3-10 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
- DAS (Distributed Antenna Systems)
- Discrete Ceiling Mounts

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REVISIONS			
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A	INITIAL RELEASE	04/21/2021	KHIETPAS

  
  
  

NOTES:

- LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY.

  

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:                      CABLE LENGTH (L) TOLERANCES:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; border-right: 1px solid black; padding: 2px;">                 .X = ±.2 [5.08]    FRACTIONS ± 1/32                  .XX = ±.02 [.51]    ANGLES ± 1°                  .XXX = ±.005 [.13]             </td> <td style="width: 67%; padding: 2px;">                 L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0                  300 [7620] &lt; L = +5%L / -0             </td> </tr> </table>	.X = ±.2 [5.08]    FRACTIONS ± 1/32 .XX = ±.02 [.51]    ANGLES ± 1° .XXX = ±.005 [.13]	L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>								
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