

FM51LP1002 **DATA SHEET**

2.4 GHz to 5.8 GHz Ultra-Wideband 8 dBi Log periodic Antenna

The Fairview Microwave® FM51LP1002 is a high performance ultra wide band log periodic antenna designed to operate from 2.3 GHz to 6.5 GHz. This Ultra-Wideband design eliminates the need to purchase different antennas for each frequency. This simplifies installation since the same antenna can be used for a wide array of wireless applications where wide coverage is desired. The broadband characteristics of the antenna enables it to operate over a very wide frequency rang with consistent gain. The FM51LP1002 is ideal for Distributed Antenna Systems, DAS. A DAS system is used to distribute signals operating in different frequency bands like 802.11ac or WiMAX throughout a building or area. This antenna features 8 dBi of gain and a 60 degree beam width.

The internal components of this antenna are enclosed within a UV-stable white fiberglass radome for all-weather operation. It is supplied with a swivel mast mount kit.

Configuration

Design Gain Polarization Cable Type Cable Length Connector Type Number of Ports Log Periodic 8 to 8 dBi Vertical Coax lead 9 in [228.6 mm] N Female

1

Electrical Specifications

Description	Min	Тур	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		8		dBi
Front to Back Ratio		20		dB
Input Power			50	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-6.5					GHz
Gain	8					dBi
Horiz. Beam Width	80					Degrees
Vert. Beam Width	60					Degrees
Max Input Power	50					Watts

Mechanical Specifications

Radome Material **Fiberglass**

Size

Length 6.21 in [157.73 mm] Width 3.67 in [93.22 mm] Height 1.33 in [33.78 mm]



Features:

- Ultra Wide Band design
- 2.3 to 6.5 GHZ continuous coverage
- Ideal for use with multiband access points and routers
- Superior performance
- Compact size, low profile and easy to mount, 9 inch coax lead included

Applications:

- 802.11a/b/g/n and 802.11ac access points and routers
- 802.16 and 802.20 WiMAX applications
- Distributed Antenna Systems, DAS, Ultra Wide Band, UWB applications
- Homeland Security and Public Safety Services: Fire, Police, Security
- WiFi Systems

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Mounting Mast Diameter 1.5 to 1.9 in [38.10 to 48.26 mm]

Weight 0.532 lbs [241.31 g]

Mechanical Specification Notes: Radome material is UV stable fiberglass

Environmental Specifications Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2.4 GHz to 5.8 GHz Ultra-Wideband 8 dBi Log periodic Antenna 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: 2.4 GHz to 5.8 GHz Ultra-Wideband 8 dBi Log periodic Antenna FM51LP1002

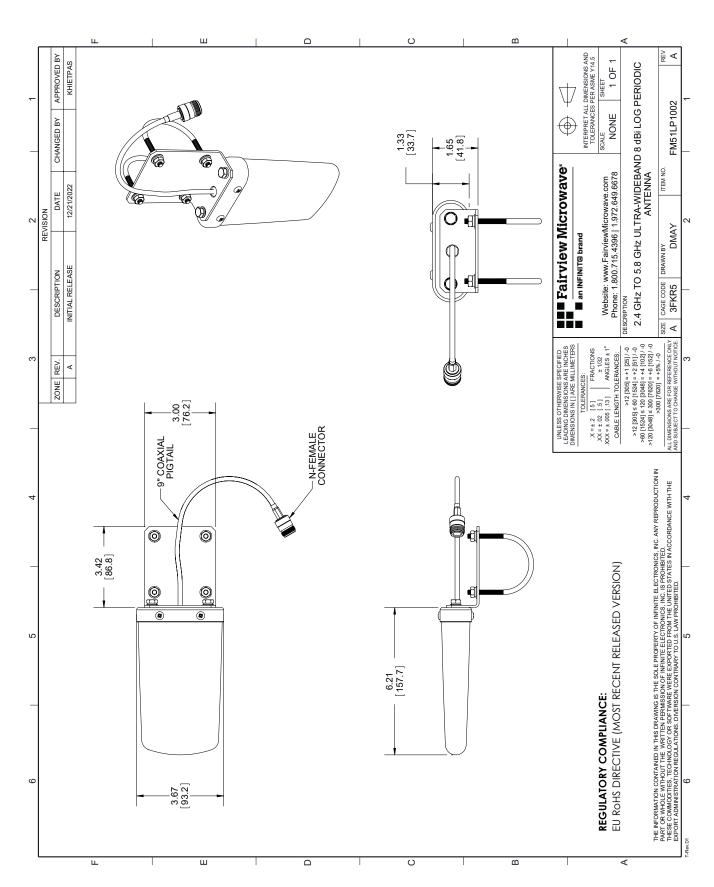
URL: https://www.fairviewmicrowave.com/wide-antenna-8-dbi-gain-n-fm51lp1002-p.aspx

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