

**902 to 928 MHz, RFID Flat Panel Antenna, 9 dBi Gain
SMA Male, ABS Radome, RHCP**

Fairview Microwave's FMANFP1051 is a RHCP RFID flat panel antenna. The FMANFP1051 with a 9 dBi gain nominal is a Directional antenna. Our 902 to 928 MHz antenna has SMA Male connector.

With an impedance of 50 Ohms and max input power of 20 Watts, the FMANFP1051 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 9 dBi gain RFID antenna is highly directional providing the reader radio the capabilities of simultaneously reading a multitude of RFID tags with a high degree of accuracy.

Fairview Microwave's RFID FMANFP1051 has a radome made of ABS in Off-White color and comes from a facility certified to ISO 9001:2015. This SMA Male connectized Antenna has an overall length of 5.7 in, width of 5.7 in, and weighs 1.65 lbs. Use our on-line ordering system to purchase your FMANFP1051 RFID Directional RHCP antenna 24 hours a day with same-day shipping and no MOQs (minimum order quantities).

Configuration

Design	Flat Panel
Gain	9
Polarization	RHCP
Cable Type	RG142
Connector Type	SMA Male
Connector Type Specification	MIL-STD-348A
Lightning Protection	DC Grounded

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	902		928	MHz
Input VSWR			1.3:1	
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio		17		dB
Horizontal (Azimuth) Beam Width		60		Degrees
Vertical (Elevation) Beam Width		55		Degrees
Input Power			20	Watts

Mechanical Specifications

Radome Material	ABS
Size	
Length	5.7 in [144.78 mm]
Width	5.7 in [144.78 mm]
Height	1 in [25.4 mm]
Weight	1.65 lbs [748.43 g]
Connector 1	
Inner Conductor Material and Plating	Brass, Gold
Inner Conductor Plating Specification	50 µin minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum



Features:

- High Performance Multi-tag read/write Capabilities
- Lightweight, Concealable Design
- Right Hand Circular Polarized
- 902 to 928 MHz Frequency Range
- 2 Meter Cable
- SMA Male Connector

Applications:

- Radio Frequency Identification
- Inventory Management
- Access Control
- Data Collection
- Asset Tracking
- Livestock Management

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Hex Size	5/16 inch
Body Material and Plating	Brass, Nickel
Body Plating Specification	100 µin minimum

Environmental Specifications

Temperature

Operating Range	-40 to +60 deg C
Ingress Protection	IP67

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

902 to 928 MHz, RFID Flat Panel Antenna, 9 dBi Gain SMA Male, ABS Radome, RHCP 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: [902 to 928 MHz, RFID Flat Panel Antenna, 9 dBi Gain SMA Male, ABS Radome, RHCP FMANFP1051](#)

URL: <https://www.fairviewmicrowave.com/9-dbi-flat-panel-antenna-902-928-mhz-sma-connector-fmanfp1051-p.aspx>

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