

902 to 928 MHz, RFID Flat Panel Antenna, 1.5 dBi Gain SMA Male, EVA Radome, RHCP

Fairview Microwave's FMANFP1047 is a RHCP RFID flat panel antenna. The FMANFP1047 with a 1.5 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 FMANFP1047 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 1.5 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 FMANFP1047 has a radome made of EVA in Black color and comes from a facility certified to ISO 9001:2015. This SMA Male connected Antenna has an overall length of 11 in, width of 5 in, and weighs 0.2866 lbs. Use our on-line ordering system to purchase your FMANFP1047 RFID Directional RHCP antenna 24 hours a day with same-day shipping and no MOQs (minimum order quantities).

Configuration

Design	Flat Panel
Gain	1.5
Polarization	RHCP
Cable Type	RG316
Connector Type	SMA Male
Connector Type Specification	MIL-STD-348A
Lightning Protection	DC Grounded

Electrical Specifications

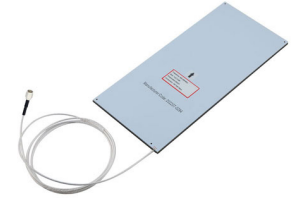
Description	Min	Typ	Max	Units
Frequency Range	902		928	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		1.5		dBi
Front to Back Ratio		20		dB
Horizontal (Azimuth) Beam Width		100		Degrees
Vertical (Elevation) Beam Width		58		Degrees
Input Power			20	Watts

Mechanical Specifications

Radome Material	EVA
Size	
Length	11 in [279.4 mm]
Width	5 in [127 mm]
Height	0.19 in [4.83 mm]
Weight	0.2866 lbs [130 g]

Connector 1

Inner Conductor Material and Plating	Brass, Gold
Inner Conductor Plating Specification	30 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 -20 to +65 deg C

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

Plotted and Other Data

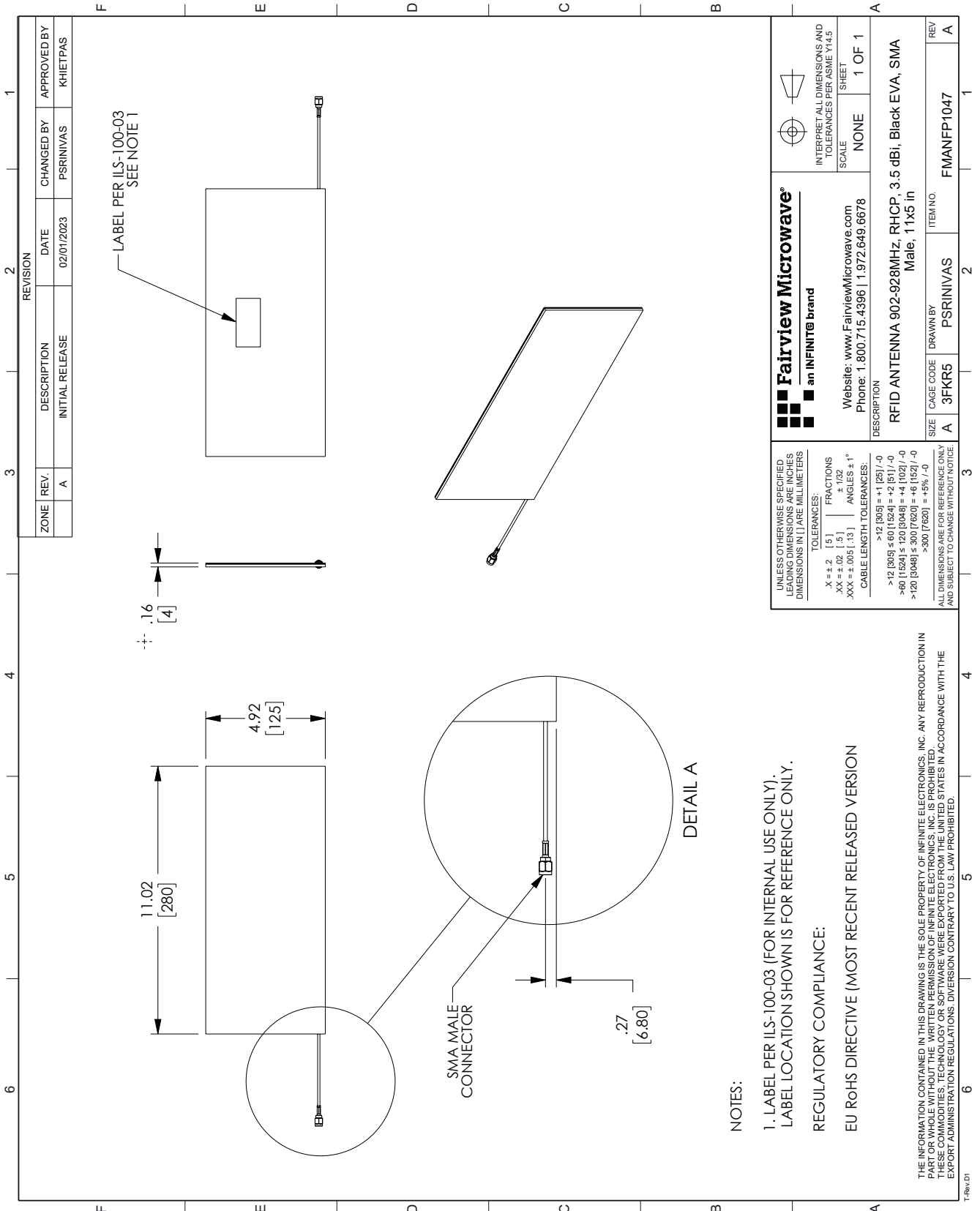
Notes:

902 to 928 MHz, RFID Flat Panel Antenna, 1.5 dBi Gain SMA Male, EVA 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, 1.5 dBi Gain SMA Male, EVA Radome, RHCP FMANFP1047](#)

URL: <https://www.fairviewmicrowave.com/1.5-dbi-flat-panel-antenna-902-928-mhz-sma-connector-fmanfp1047-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISION		DATE	CHANGED BY	APPROVED BY
ZONE	REV.	DESCRIPTION	DATE	APPROVED BY
	A	INITIAL RELEASE	02/01/2023	KHETPAS

Fairview Microwave[®] an INFINIT [®] brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE	SHEET
		NONE	1 OF 1
DESCRIPTION			
RFID ANTENNA 902-928MHz, RHCP, 3.5 dBi, Black EVA, SMA Male, 1x5 In			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	PSRINIVAS	FMANFP1047
REV			A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

TOLERANCES:
 .X ± .2 [5] FRACTIONS ± .132
 .XX ± .02 [5] ANGLES ± 1°
 .XXX ± .005 [13]

CABLE LENGTH TOLERANCES:
 >12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTES:

1. LABEL PER ILS-100-03 (FOR INTERNAL USE ONLY). LABEL LOCATION SHOWN IS FOR REFERENCE ONLY.

REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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