

## Antenna Operates From 1.7 GHz to 2.5 GHz With a Typical 2 dBi Gain N Male Input Connector

### FM51117A



#### Features

- 1710 - 2500 MHz omnidirectional rubberduck antenna
- Military grade rugged antenna
- Vertical Polarized
- 2 dBi gain
- 50 W power handling capacity
- Type N Male connector
- Black

#### Applications

- GSM/CDMA/LTE cellular communications
- WiMax & IOT
- 2.4 GHz Wi-Fi
- Military radio relay, telemetry and Control station communications
- Super rugged

#### Description

FM51117A from Fairview Microwave is part of our extensive in-stock omni-directional radio antenna selection. This single band portable antenna has a frequency range of 1.7 GHz to 2.5 GHz and a nominal dBi gain. Our portable antenna uses type N male connector and is rated for 50 Watts input. FM51117A portable radio antenna is one of over 40,000 RF, microwave and millimeter wave components supplied from Fairview Microwave. Our portable aerial can be bought and shipped worldwide the same-day as with our other available RF parts.

#### Configuration

Design	Portable
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Ground Plane	No
Connector Type	N Male

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,700		2,500	MHz
Operational Bandwidth)		0.8		GHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2		dBi
Horizontal (Azimuth) HPBW		360		Degrees
Vertical (Elevation) HPBW		70		Degrees
Input Power			50	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	9.8 in [248.92 mm]
Width	0.812 in [20.62 mm]
Weight	0.13 lbs [58.97 g]

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### Environmental Specifications

**Temperature**

Wind Survivability

100 MPH [160.93 KPH]

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

### Plotted and Other Data

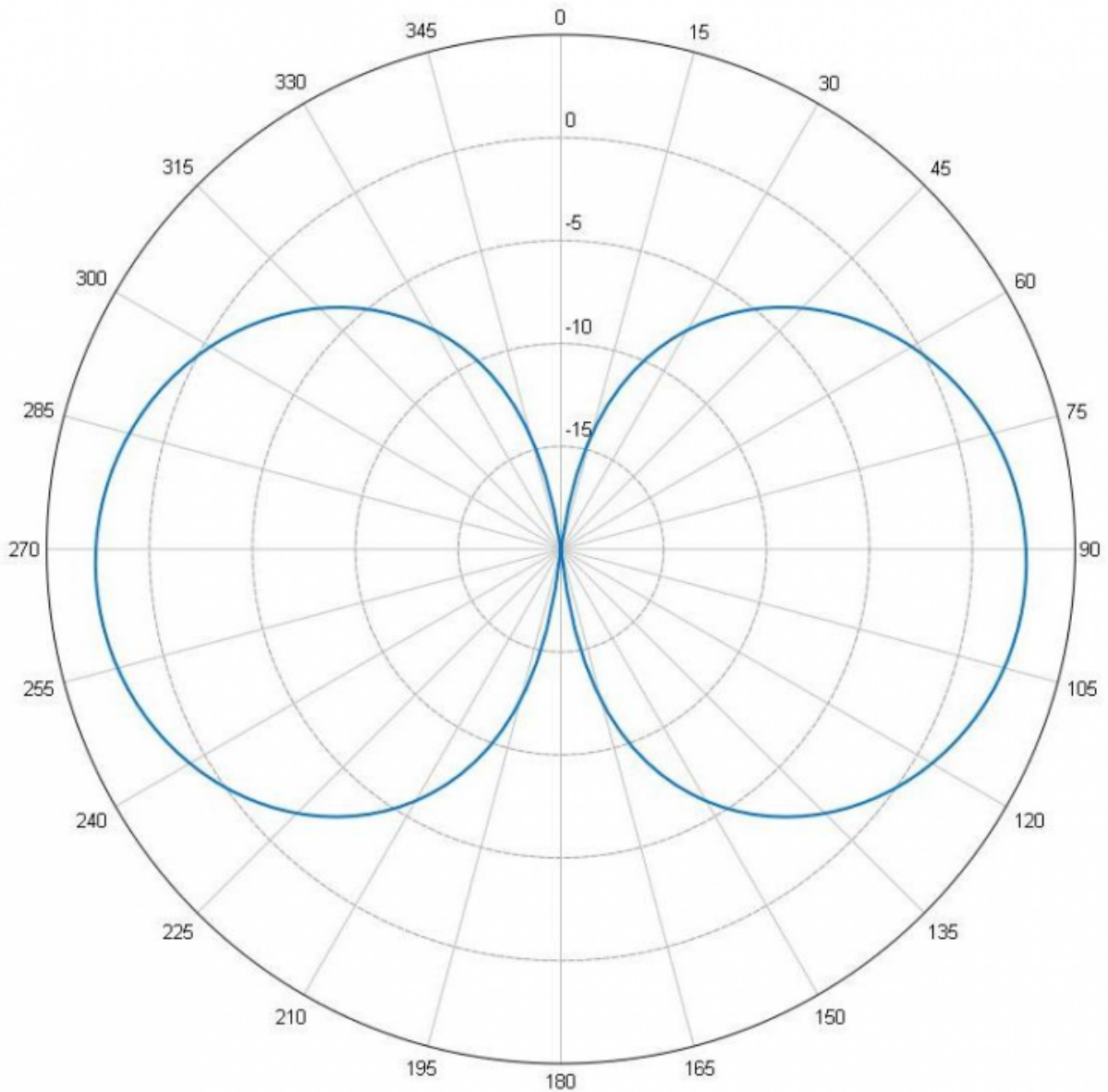
Notes:

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**FM51117A**



Typical Radiation Pattern



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### Appendix

**Electrical Downtilt:** Angle in the antenna's elevation pattern in which the maximum gain occurs.

**Gain:** Antenna's average gain.

**Front to Back Ratio @ 180°±30°:** Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

**Cross-polarization Ratio (dB):** Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

Antenna Operates From 1.7 GHz to 2.5 GHz With a Typical 2 dBi Gain N Male Input 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.

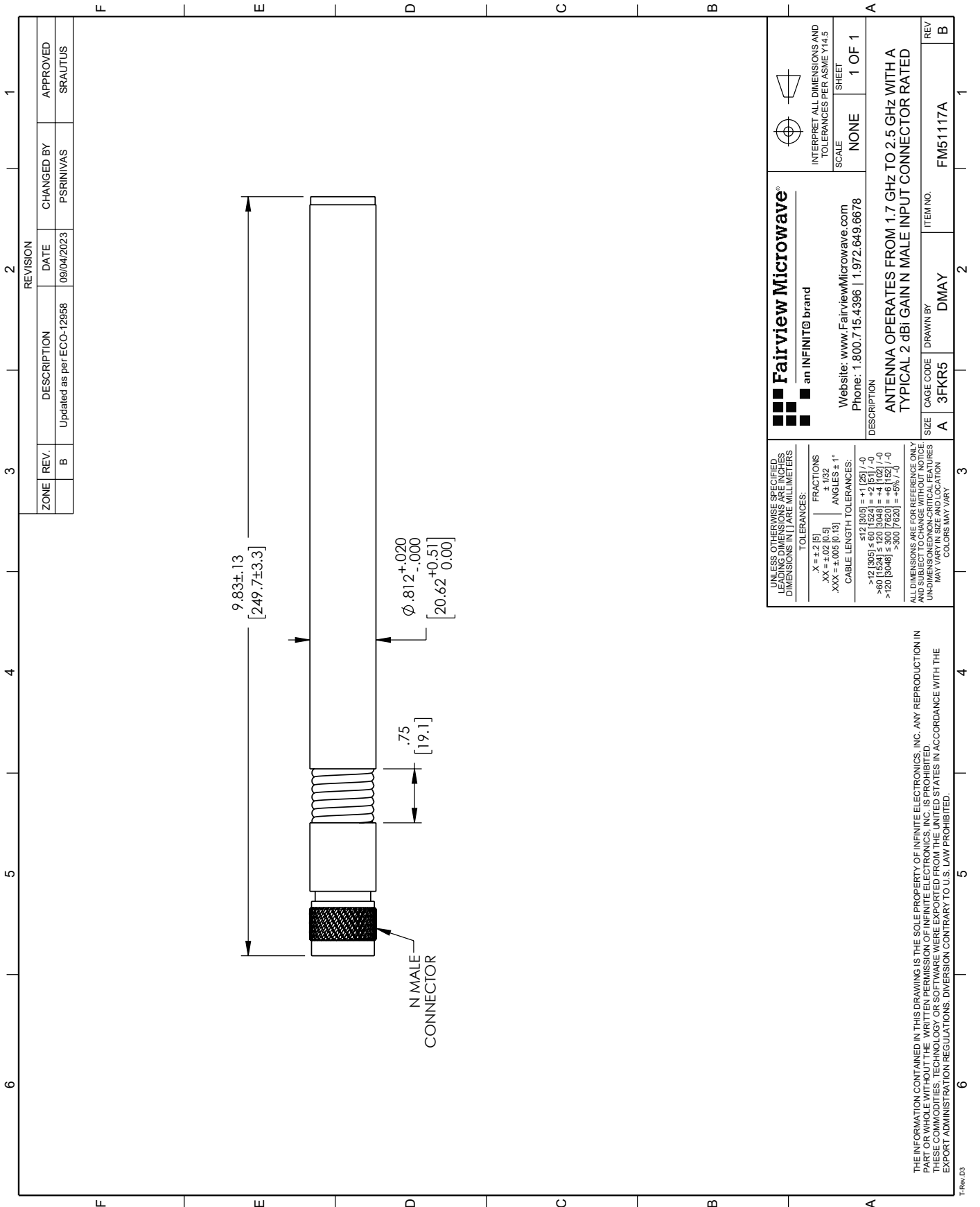
For additional information on this product, please click the following link: [Antenna Operates From 1.7 GHz to 2.5 GHz With a Typical 2 dBi Gain N Male Input Connector FM51117A](#)

URL: <https://www.fairviewmicrowave.com/2-dbi-portable-antenna-1700-2500-mhz-n-type-connector-fm51117a-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FM51117A CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV.	DESCRIPTION		
	B	Updated as per ECO-12958	PSRINIVAS	SRAUTUS

<b>Fairview Microwave</b> an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		DESCRIPTION: <b>ANTENNA OPERATES FROM 1.7 GHz TO 2.5 GHz WITH A TYPICAL 2 dBi GAIN N MALE INPUT CONNECTOR RATED</b>	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FM51117A

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

TOLERANCES:

X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

<12 [305]	±.1 [25]
>12 [305] ≤ 60 [1524]	±.2 [5]
>60 [1524] ≤ 120 [3048]	±.4 [102]
>120 [3048] ≤ 300 [7620]	±.6 [152]
>300 [7620]	±.9 [229]

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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