

**Whip Antenna Operates From 420 MHz to 450 MHz  
 With a Nominal 0 dBi Gain SMA Female Input  
 Connector IP67 Rated**

Fairview Microwave's ¼ wave portable omni whip antennas feature a textured black finish and a strain-relief base to ensure durability and repeatable RF performance. Our ¼ wave portable omni whip antennas are available with operating frequencies as low as 400 MHz and as high as 960 MHz. These antennas are offered with gain ranges from unity to 2 dBi. The omni-directional radiation pattern and IP67 rating make these antennas ideal for mobile radio communications.

- Operating frequencies from 400 MHz to 960 MHz
- Gain ranges from unity to 2 dBi
- VSWR less than 2: 1, in most cases
- 50 Ohm Impedance
- IP67 Rated
- Variety of connector types available (SMA Female, MX, or MD) for use in many portable handheld radio applications. See below for common brand & connector combinations.
- MX (1/4-32 x 7/32) – Commonly used in: Motorola, Radius, Saber, Saber+, Spirit, Expo, Kenwood, Maxon, Midland, Wilson, GE Monogram, and Vertex Standard.
- MD (M7 x 1.0) – Commonly used in: GE
- SMA Female (SF) – Commonly used in: Motorola, Visar, and Kenwood

**Electrical Specifications\***

Description	Min	Typ	Max	Units
Frequency	420		450	MHz
Impedance		50		Ohms
Nominal Gain	0			dBi
Input VSWR			2:1	

\* Values at 25°C, sea level

**Mechanical Specifications**

<b>Size</b>	
Length	6.5 in [165.1 mm]
Width	0.58 in [14.73 mm]
Weight	0.034 lbs [15.42 g]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-20 to +65 deg C
Environment	IP67

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

- Notes:
- Values at 25 °C, sea level



**Features:**

- Design: Whip Portable
- Frequency Range: 420 to 450 MHz
- Polarization: Vertical
- Interface 1: SMA Female
- Number of Output Ports: 1

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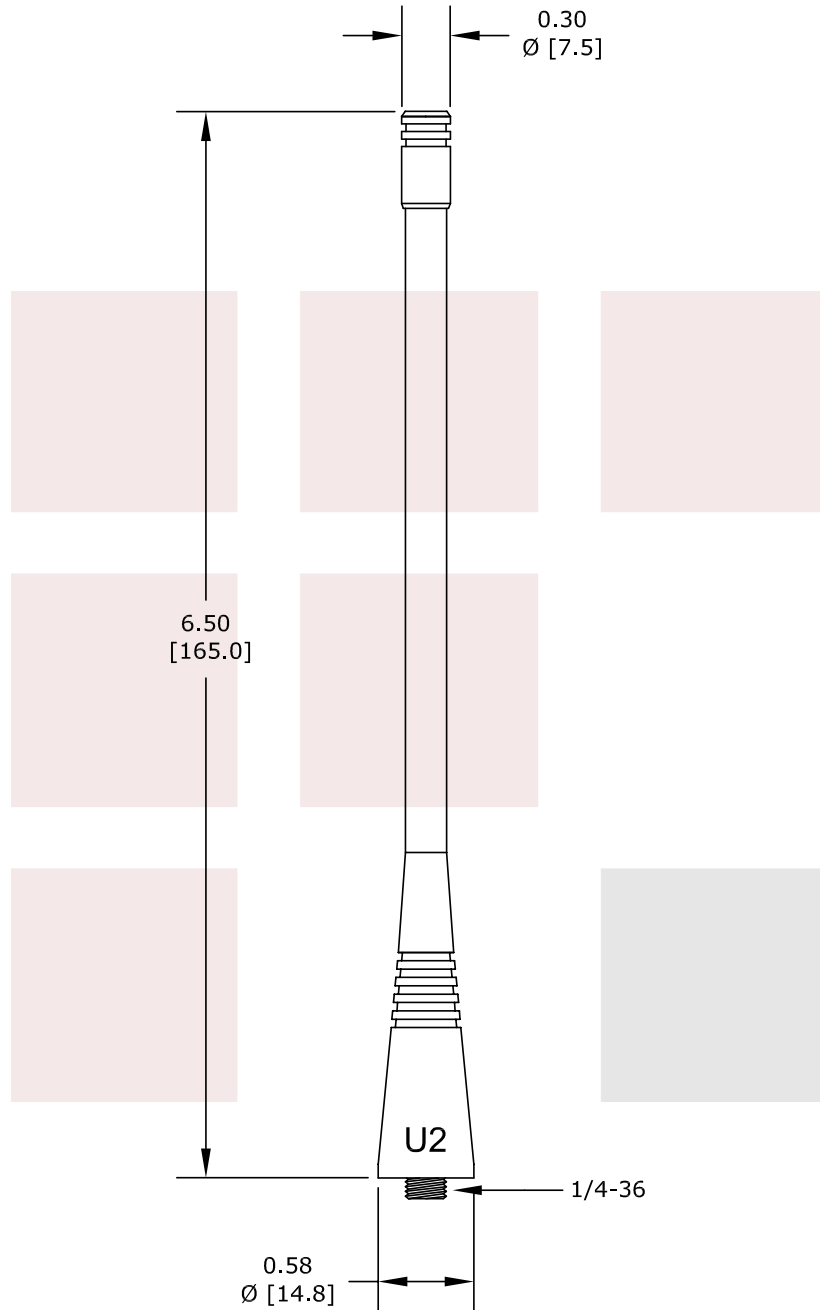
Whip Antenna Operates From 420 MHz to 450 MHz With a Nominal 0 dBi Gain SMA Female Input Connector IP67 Rated from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Whip Antenna Operates From 420 MHz to 450 MHz With a Nominal 0 dBi Gain SMA Female Input Connector IP67 Rated FMAN51159](#)

URL: <http://www.fairviewmicrowave.com/whip-antenna-0-dbi-sma-female-fman51159-p.aspx>

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NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

TITLE  
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DWG NO	FMAN51159		CAGE CODE		
			3FKR5		
CAD FILE	111314	SHEET	SCALE	N/A	SIZE
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