

## 790 MHz to 2700 MHz Electronic Warfare Omni Antenna, N-Type Female, MIL-STD-810 TAA Compliant

### FMANOM1144



#### Features

- High Power, High Gain
- N-type Female RF Connector
- MIL-STD-810
- Spring base with US 4 hole or NATO 3/6 hole pattern
- Ground plane independent
- TAA Compliant

#### Applications

- Electronic Warfare/Jamming
- Cellular Communication/Jamming
- Anti-UAV Operations
- Anti-Unmanned Operations
- Anti-Reconnaissance and Surveillance Systems
- Defense and Strategic Installations

#### Description

The FMANOM1144 from Fairview Microwave is a high power, high gain MIL-STD-810 omnidirectional antenna, specifically designed for 790 MHz to 2700 MHz vehicle mounted military applications. This Mil Spec antenna is TAA compliant and features standard US 4 hole or NATO 3/6 hole pattern.

The FMANOM1144 antenna, available same day from Fairview Microwave, is tailored for applications in electronic warfare and jamming with its wideband dipole array, seamlessly operating across GSM, 3G, and 4G LTE frequencies. The radome-protected radiator enhances durability, and the absence of a ground plane requirement opens up diverse mounting possibilities, making it an ideal choice for electronic warfare and jamming scenarios where flexibility is paramount.

Designed to weather challenging conditions, the FMANOM1144 stands out as a durable communication solution. Operating in temperatures from -40 to +71 °C, this antenna meets MIL-STD-810 standards for humidity, shock, vibration, blowing rain, and immersion. With impact resistance at 40 km/h and a water immersion depth of 1 meter, the FMANOM1143 ensures unwavering connectivity in active hostile and harsh environments.

#### Configuration

Design	Bifilar
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	790		2,700	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		4		dBi
Input Power			85	Watts

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Power Rating (RMS)*	
790 – 1000 MHz	85 watts (P <sub>max1</sub> )
1000 – 1700 MHz	65 watts (P <sub>max2</sub> )
1700 – 2200 MHz	60 watts (P <sub>max3</sub> )
2200 – 2700 MHz	55 watts (P <sub>max4</sub> )
* Sum of input powers (P) should not exceed the limit of $1 \geq P1/P_{max1} + P2/P_{max2} + P3/P_{max3} + P4/P_{max4}$	

**Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	0.79 to 1	1 to 1.7	1.7 to 2.2	2.2 to 2.7		GHz
Maximum Input Power	85	65	60	55		Watts

**Mechanical Specifications**

**Size**

Length	5 in [127 mm]
Width	5 in [127 mm]
Height	22 in [558.8 mm]
Weight	4.8 lbs [2.18 kg]

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +71 deg C
Storage Range	-40 to +85 deg C
Environment	MIL-STD-810F
Wind Survivability	118 MPH [189.9 KPH]
Humidity	MIL-STD-810E, Method 507.3 Procedure III
Shock	MIL-STD-810F, Method 516.5 Procedure I
Vibration	MIL-STD-810F, Method 514.5 Category 24

Environmental Specification Notes:

Beam Impact Resistance: Impact at 40 km/h at 70 % height of the radiator

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

**Plotted and Other Data**

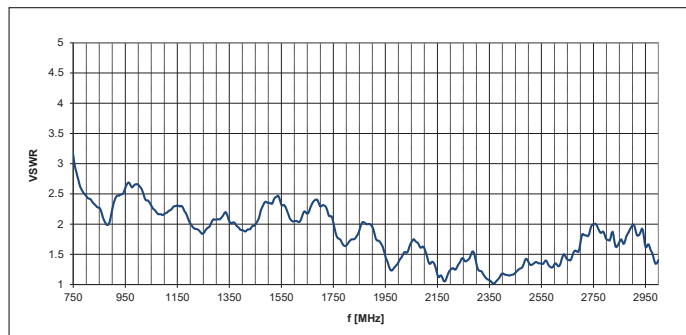
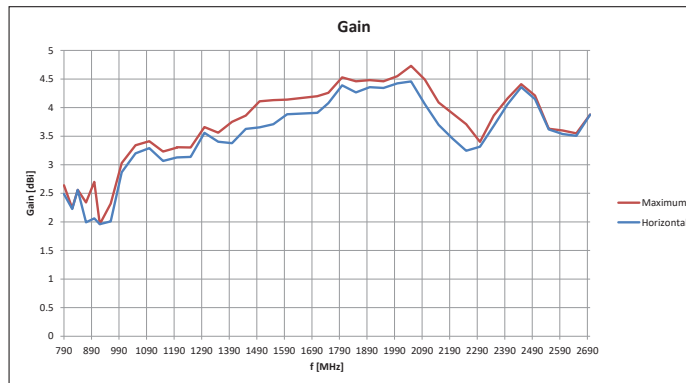
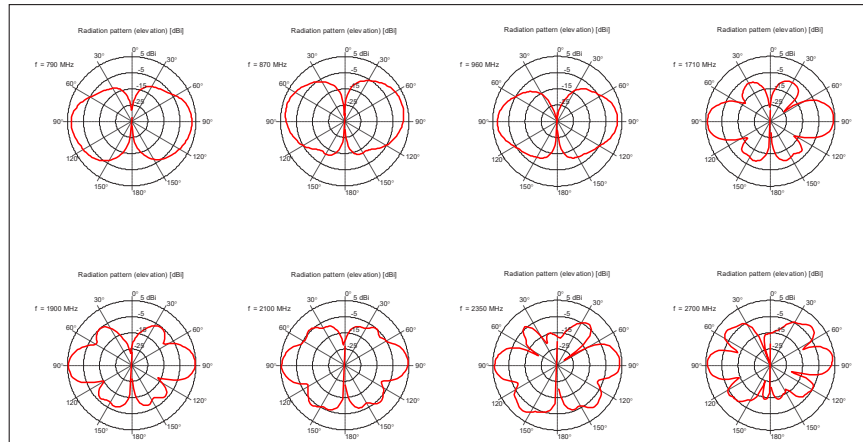
Notes:

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#### 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 @  $180^\circ \pm 30^\circ$ :** Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over  $\pm 30^\circ$  angles.

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

790 MHz to 2700 MHz Electronic Warfare Omni Antenna, N-Type Female, MIL-STD-810 TAA Compliant 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: [790 MHz to 2700 MHz Electronic Warfare Omni Antenna, N-Type Female, MIL-STD-810 TAA Compliant FMANOM1144](https://www.fairviewmicrowave.com/product/antennas/790-mhz-to-2700-mhz-electronic-warfare-omni-antenna-n-type-female-mil-std-810-taa-compliant-fmanom1144)

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