

500 MHz to 6000 MHz Electronic Warfare Omni Antenna, 200W N-Type Female, MIL-STD-810 TAA Complaint

Description

The FMANOM1143 from Fairview Microwave is a high power, high gain MIL-STD-810 omnidirectional antenna, specifically designed for 500 MHz to 6000 MHz vehicle mounted military applications. This wideband antenna is TAA compliant and features standard US 4 hole or NATO 3/6 hole pattern.

The FMANOM1143 antenna, available same day from Fairview Microwave, is tailored for applications in electronic warfare and jamming with its wideband dipole array, seamlessly operating across a wide range of 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 FMANOM1143 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	Mobile
Gain	4
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	500		6,000	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		4		dBi
Input Power			200	Watts

Electrical Specification Notes:

800 – 6000 MHz without a ground plane

500 – 6000 MHz on a ground plane = 0.5 x 0.5 m²

Mechanical Specifications

Size	
Length	5 in [127 mm]
Width	5 in [127 mm]
Height	5.12 in [130.05 mm]
Weight	2.2 lbs [997.9 g]



Features:

- High Power, High Gain, Wideband
- N-type Female RF Connector
- MIL-STD-810
- US 4 hole or NATO 3/6 hole pattern
- Low Profile
- TAA Compliant

Applications:

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

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Environmental Specifications

Temperature

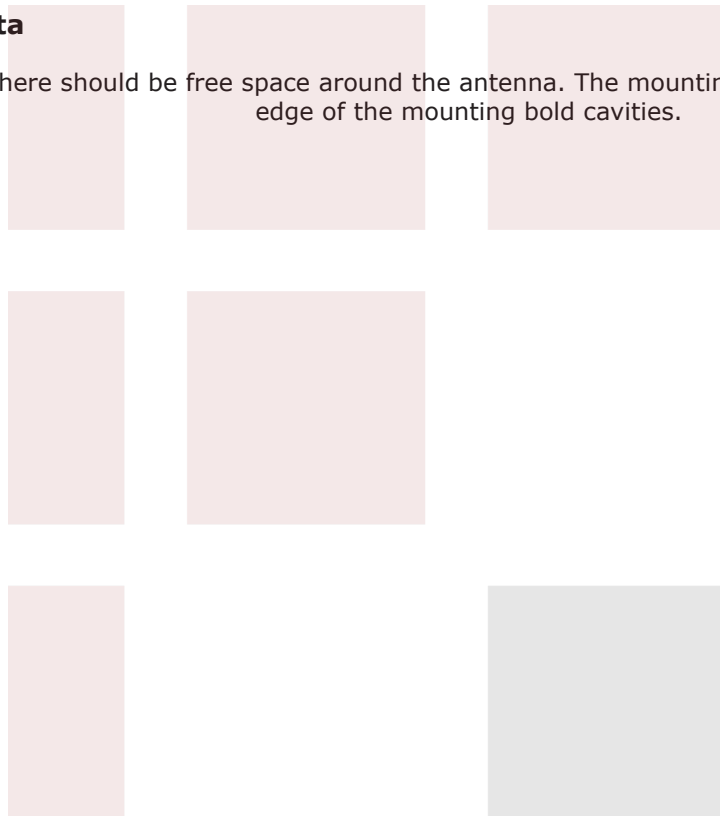
Operating Range	-40 to +55 deg C
Storage Range	-40 to +85 deg C
Environment	MIL-STD-810F
Wind Loading	124.27 MPH [199.99 KPH]
Humidity	MIL-STD-810E, Method 507.3 Procedure III
Shock	MIL-STD-810F, Method 516.5 Procedure I
Vibration	MIL-STD-810F, Method 514.5 Category 24

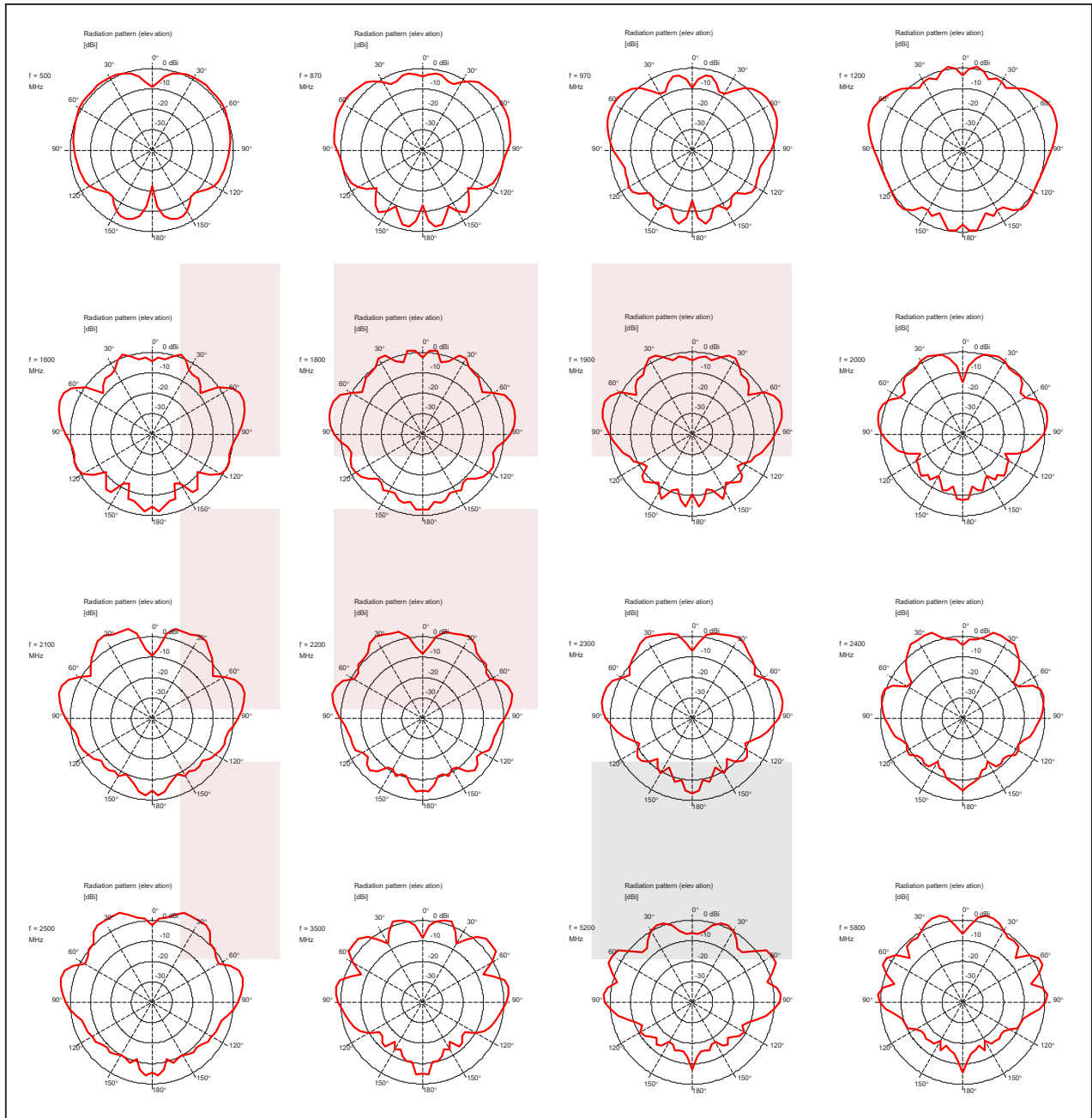
Compliance Certifications (see [product page](#) for current document)

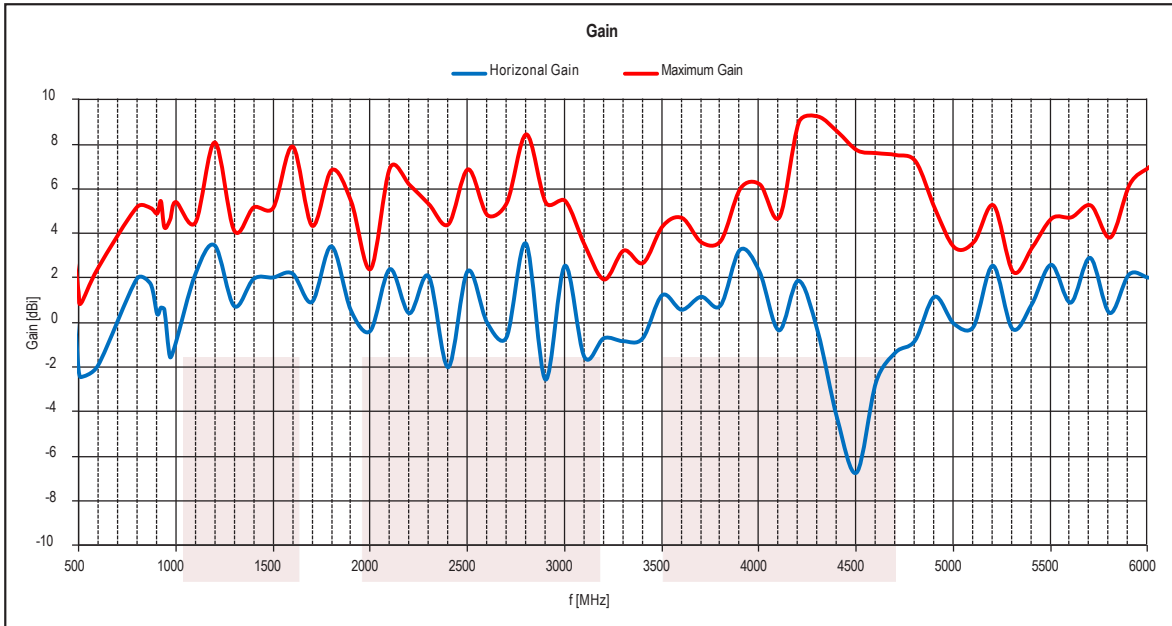
Plotted and Other Data

Notes:

For perfect operation there should be free space around the antenna. The mounting bolts shall not protrude the upper edge of the mounting bold cavities.







500 MHz to 6000 MHz Electronic Warfare Omni Antenna, 200W N-Type Female, MIL-STD-810 TAA Complaint 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: [500 MHz to 6000 MHz Electronic Warfare Omni Antenna, 200W N-Type Female, MIL-STD-810 TAA Complaint FMANOM1143](#)

URL: <https://www.fairviewmicrowave.com/500-mhz-to-6000-mhz-electronic-warfare-omni-antenna-200w-n-type-female-mil-std-810-taa-complaint-fmanom1143-p.aspx>

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