

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

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	Mobile
Gain	4
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	790		2,700	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		4		dBi
Input Power			85	Watts

Specifications by Frequency

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



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

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Power Rating (RMS)*	
790 – 1000 MHz	85 watts (P _{max1})
1000 – 1700 MHz	65 watts (P _{max2})
1700 – 2200 MHz	60 watts (P _{max3})
2200 – 2700 MHz	55 watts (P _{max4})

* Sum of input powers (P) should not exceed the limit of $1 \geq P1/P_{max1} + P2/P_{max2} + P3/P_{max3} + P4/P_{max4}$

Mechanical Specifications

Size

Length	5 in [127 mm]
Width	5 in [127 mm]
Height	22 in [558.8 mm]
Weight	2.4 lbs [1.09 kg]

Environmental Specifications

Temperature

Operating Range	-40 to +71 deg C
Storage Range	-40 to +85 deg C

Environment	MIL-STD-810F
Wind Loading	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

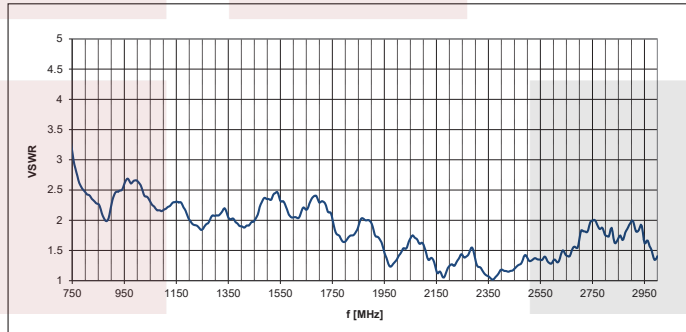
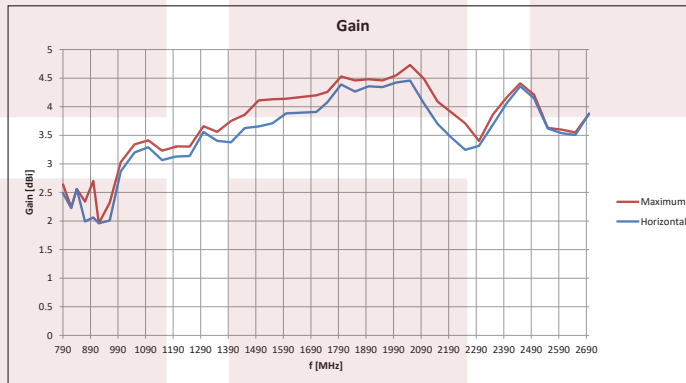
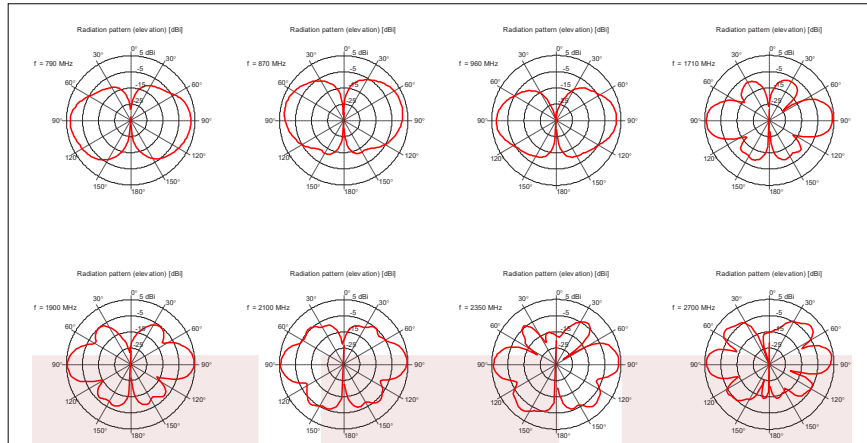
Environmental Specification Notes:

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:



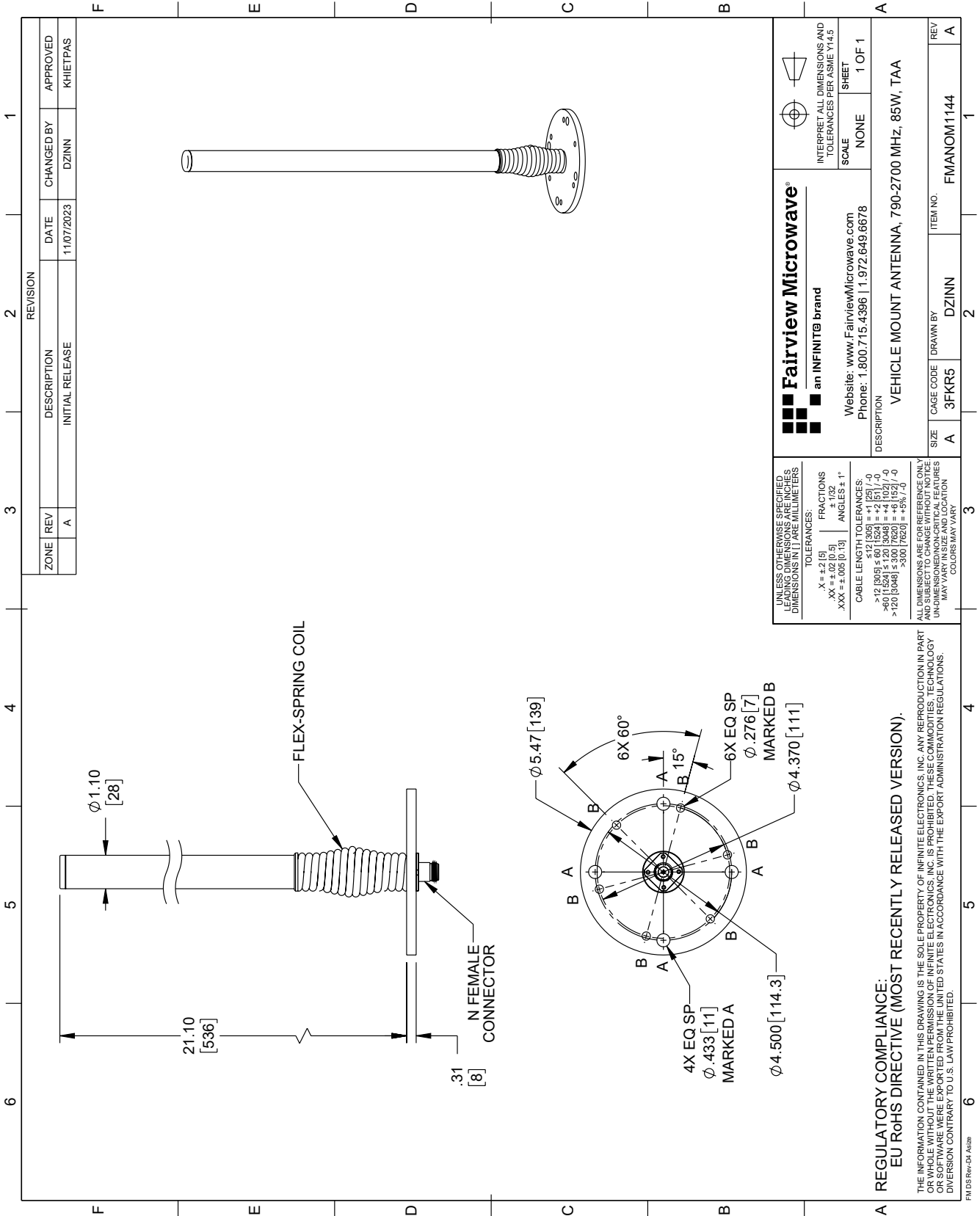
790 MHz to 2700 MHz Electronic Warfare Omni Antenna, N-Type Female, MIL-STD-810 TAA Complaint from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [790 MHz to 2700 MHz Electronic Warfare Omni Antenna, N-Type Female, MIL-STD-810 TAA Complaint FMANOM1144](#)

URL: <https://www.fairviewmicrowave.com/790-mhz-to-2700-mhz-electronic-warfare-omni-antenna-n-type-female-mil-std-810-taa-complaint-fmanom1144-p.aspx>

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ZONE		REVISION		CHANGED BY		APPROVED	
REV	DESCRIPTION	DATE	INITIAL RELEASE	DATE	INITIAL RELEASE	DATE	INITIAL RELEASE
A		11/07/2023					

Fairview Microwave an INFINIT [®] brand Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	DESCRIPTION: VEHICLE MOUNT ANTENNA, 790-2700 MHZ, 85W, TAA
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS. TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]	CAGE CODE: 3FKR5 DRAWN BY: DZINN ITEM NO.: FMANOM1144 REV: A
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.1 [25] / -0 ≤ 60 [1524] = ±.2 [51] / -0 ≤ 120 [3048] = ±.300 [7620] = +.6 [152] / -0 > 300 [7620] = ±.5% / -0	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

REGULATORY COMPLIANCE:
EU RoHS DIRECTIVE (MOST RECENTLY RELEASED VERSION).

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FMS Rev-D-Asst