

406 MHz - 512 MHz 1 Folded Dipole antenna, 4.6 dBi gain, 1/4 Wave Offset pattern, V-pol, Type N Female Connector

The exposed dipole single element antenna FMANED1009 from Fairview Microwave is a high-performance RF component operates from 406 to 512 MHz for UHF applications like boosting radar, GPR/WPR, FM Radio, TV broadcasts, public safety, LMR / PMR and aviation where directivity and coverage are very important. The FMANED1009 from Fairview Microwave Antennas is a high-performance, single element exposed folded dipole antenna specifically designed to aesthetically pleasing design. The Fairview Microwave Antennas FMANED1009 has 4.6 dBi / 2.45 dBd of high gain which is ideal for these applications.

The FMANED1009 exposed dipole antennas are robust, outdoor, weatherproof, and high velocity wind sustainable antennas made up of high-grade aluminum alloys for longevity and resistant to corrosion. These dipole antennas are side mounted ¼ wave spacing from the mast, has a pigtail terminated with 1 Type N female connector. This premium quality 1-bay dipole antenna has offset pattern with 100W maximum power handling capability. The folded exposed dipole FMANED1009 has 68 vertical beamwidth and 210 horizontal beamwidth. This antenna has Vertical polarization and the included mounting kit allows for very easy and quick time installations with less effort. These exposed dipoles are already tuned to be Quarter wavelength away from the mast and do not require any further field adjustments.

The central support mast is precisely designed for easy dipole attachments which fit tightly for error free and quick installations and ease for transportation. FM's 406 to 512 MHz single element Quarter wave exposed folded dipole FMANED1009 antennas with 4.6 dBi/ 2.45 dBd max gain for UHF communication applications. This Quarter wave folded exposed dipole antenna with N Female Type connector is in stock and ready to ship the same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Fairview Microwave products.

Configuration

Gain	4.6
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	406		512	MHz
Input VSWR			1.8:1	
Gain		4.6		dBi
Horizontal (Azimuth) Beam Width		210		Degrees
Vertical (Elevation) Beam Width		68		Degrees
Input Power			100	Watts

Mechanical Specifications

Radome Material	Aluminum Alloy
Size	
Length	43.3 in [109.98 cm]
Width	13.8 in [350.52 mm]
Height	2.4 in [60.96 mm]



Features:

- Frequency coverage for 406 MHz to 512 MHz with Type N Female connector
- Very High Gain 4.6 dBi / 2.45 dBd antennas
- Easy and quick time to installations
- Industrially tuned dipoles made of high-grade aluminum alloys
- 1-Folded dipole antenna has offset pattern with ¼ wave spacing
- 210° horizontal beamwidth, and 68° vertical beamwidth with Vertical Polarization
- 100 W max input power

Applications:

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- UHF radio applications supported with Trunking for two-way radio communications
- Wireless LAN systems, IOT and IIOT low data high coverage applications
- TV Broadcasts and FM radio applications
- Air traffic controllers / Public Safety / Emergency services / Marine communications
- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)

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Mounting Mast Diameter	1.5748 to 1.9685 in [40.00 to 50.00 mm]
Weight	23.7 lbs [10.75 kg]

Environmental Specifications

Wind Loading	124.274 MPH [200 KPH]
Humidity	5 to 95

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

Plotted and Other Data

Notes:

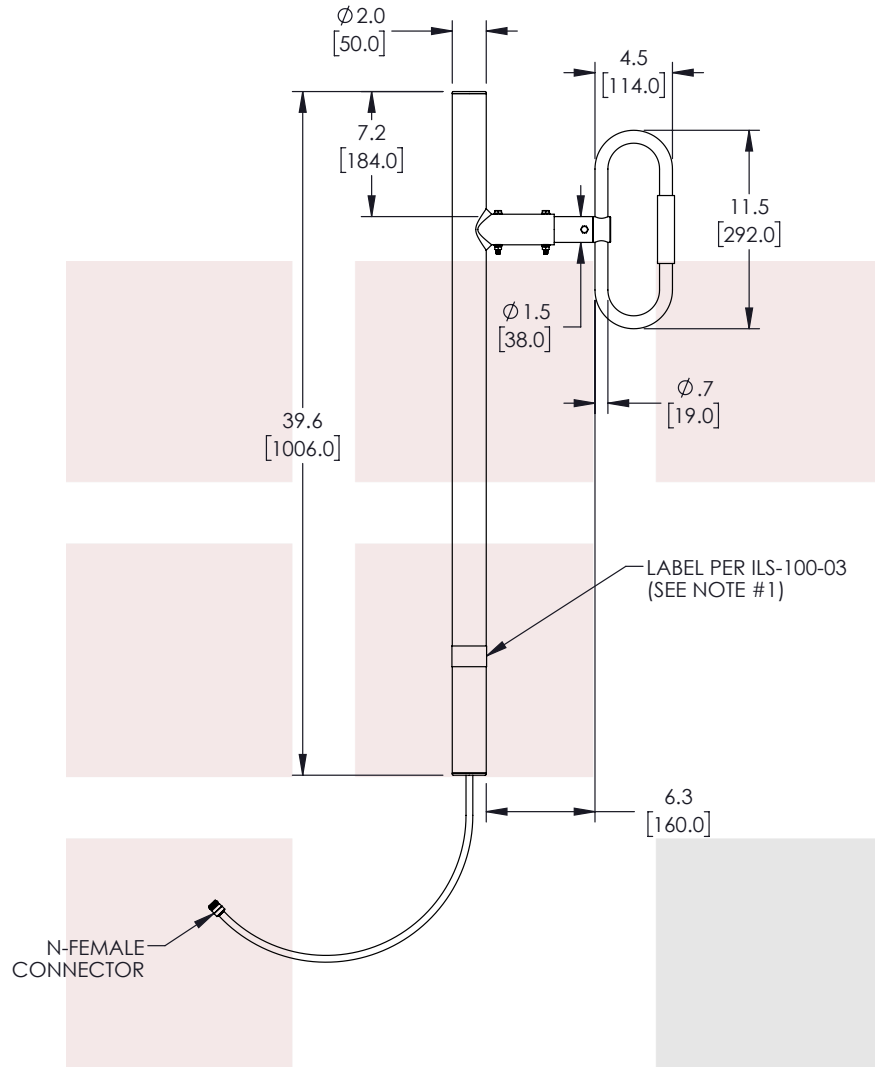
406 MHz - 512 MHz 1 Folded Dipole antenna, 4.6 dBi gain, 1/4 Wave Offset pattern, V-pol, Type N Female Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [406 MHz - 512 MHz 1 Folded Dipole antenna, 4.6 dBi gain, 1/4 Wave Offset pattern, V-pol, Type N Female Connector FMANED1009](#)

URL: <https://www.fairviewmicrowave.com/4.6-dbi-antenna-406-512-mhz-n-type-connector-fmaned1009-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/31/22	KHIETPAS



NOTES:

1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY).
LABEL LOCATION FOR REFERENCE ONLY.

REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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TITLE

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

TOLERANCES:

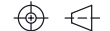
.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DMAY	FMANED1009	A

T-Rev.D