VHF EXPOSED DIPOLES

138-174 MHz

F-33031-D

The F-33031-D is a Wide Band Omnidirectional Antenna specifically designed for trunked multicoupled and X-pass systems applications. This antenna is extremely rugged and is well suited for use in severe environmental conditions. This antenna is a Low Intermod design that incorporates a minimum of moveable joints in its construction and replaces standard castings with heavy duty welded joints.

- The F-33031-D has internal cabling design and is not field adjustable.
- Passive Intermodulation Specification is measured in the third order intermodulation products, using two 25 watts (+44 dBm) Carriers.

Electrical Specifications	F-33031-D
Frequency Range, MHz	138-174
Nominal Gain, dBd	6
Number of Dipoles	8
Bandwidth 1.5:1 VSWR, MHz	36
Polarization	Vertical
Pattern	Omni
Power Rating, Watts	500
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Passive Intermodulation	-107 dBm (-150 dBc)
Standard Termination	7/16 DIN male connector attached to end of 118 in (3000 mm) RG-214 Cable

Mechanical Specifications	F-33031-D
Length, in (mm)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	30 (762)
Weight, lbs. (kg)	140 (63.5)
Weight with 1,57" (40mm) ice, lbs (kg)	604 (274)
Lateral Thrust lb (N)	665 (2955)
Bending moment at top clamp lb-ft (N-m)	4891 (6637)
Material	Aluminum 6061-T6
Projected Area, ft² (m²)	11,1 (1,03)
Mounting Information Mast O.D. (mm)	Mast 4,5" (114.3 mm) O.D.

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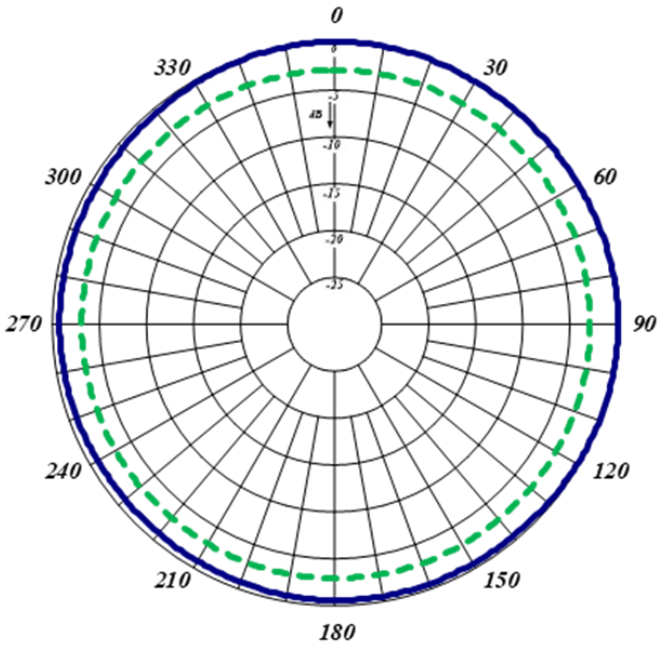
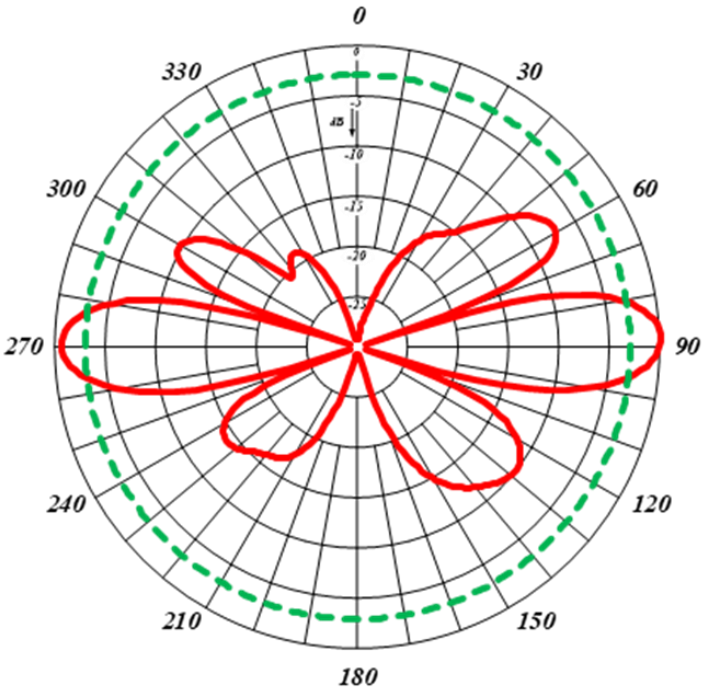
138-174 MHz



Horizontal (Azimuth) Radiation Pattern



Vertical (Elevation) Radiation Pattern

These mechanical specifications where obtained using the requirements of CAN/CSA-S37-01 Standard "Antenna, Towers and Antenna-Supporting Structures"	Wind zone ..... Class D (1000 Pa) Ice Zone ..... Class III (40 mm) Reliability ..... Class I (Importance factor 1)

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