



VHF EXPOSED DIPOLES



138-174 MHz

F-33030-D

The F-33030-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-33030-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-33030-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-33030-D
Length, in (mm)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	30 (762)
Weight, lbs. (kg)	130 (59)
Lateral Thrust lb (N)	297 (1319)
Bending moment at top clamp lb-ft (N-m)	2107 (2857)
Material	Aluminum 6061-T6
Projected Area, ft² (m²)	11,1 (1,03)
Mounting Information Mast O.D. (mm)	Mast 3,5" (88.9 mm) O.D.



These mechanical specifications were 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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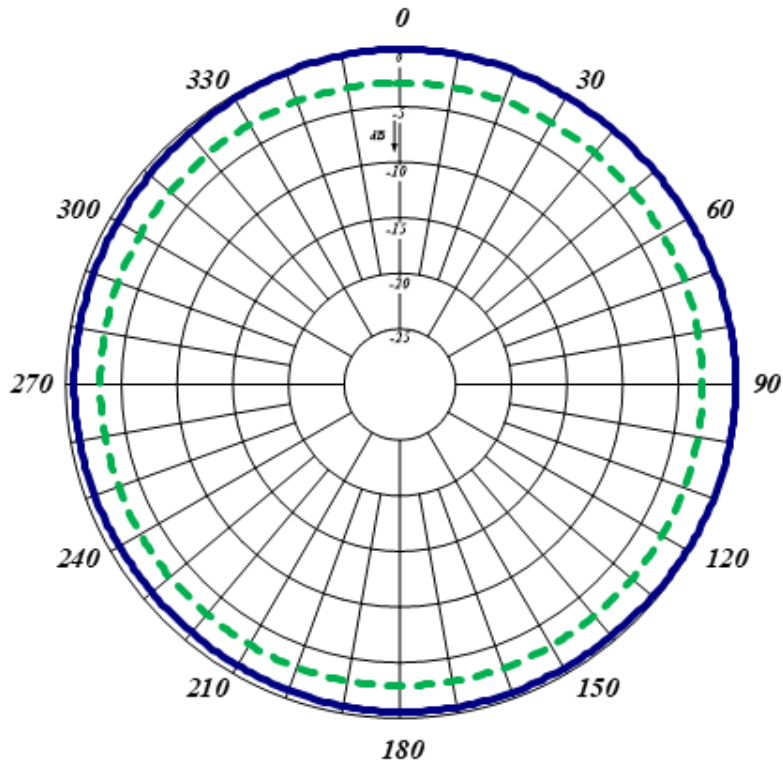


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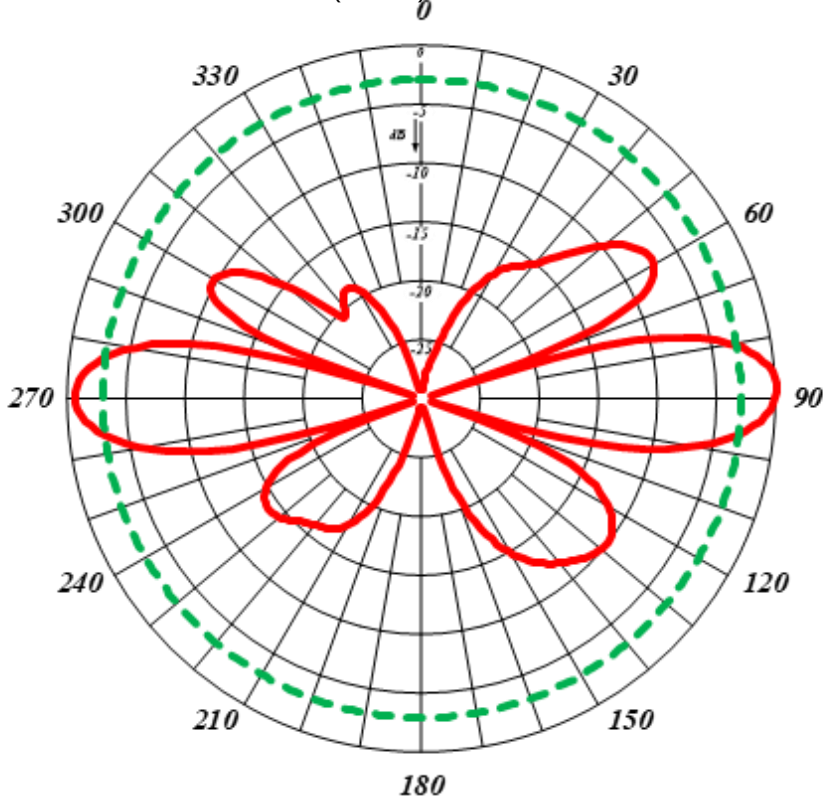
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Horizontal (Azimuth) Radiation Pattern



Vertical (Elevation) Radiation Pattern