



F-33029D-SM-1/2 VHF Exposed Dipoles

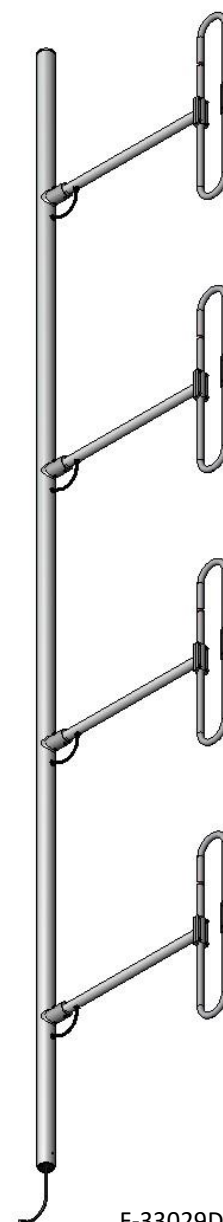
- The F-33029D-SM-1/2 is a Wide Band Antenna specifically designed for trunked Multicoupler such as X-pass systems.
- The 1/2 Wavelength dipole to mast spacing offers a bi-directional radiation pattern.
- It has internal cabling design and is not field adjustable.
- This antenna has a Low PIM design that incorporates a minimum of moveable joints in its construction and replaces standard castings with heavy duty welded joints.
- 3/8 Wavelength dipole-to-mast spacing is available for a radiation pattern between the elliptic and the offset. 1/4 Wavelength dipole-to-mast spacing is available for the offset radiation pattern.

Electrical Specifications

Frequency Range, MHz	138-174
Nominal Gain, dBd	8.0 - 8.5
Number of Dipoles	4
Bandwidth: 1.5:1 VSWR, MHz	138-174
Polarization	Vertical
Pattern	See next page
Power Rating, Watts	450
Nominal Impedance, Ohms	50
Passive intermodulation	-107 dBm (-150 dBc)
Lightning Protection	DC Ground
Connector	7/16 DIN male

Mechanical Specifications

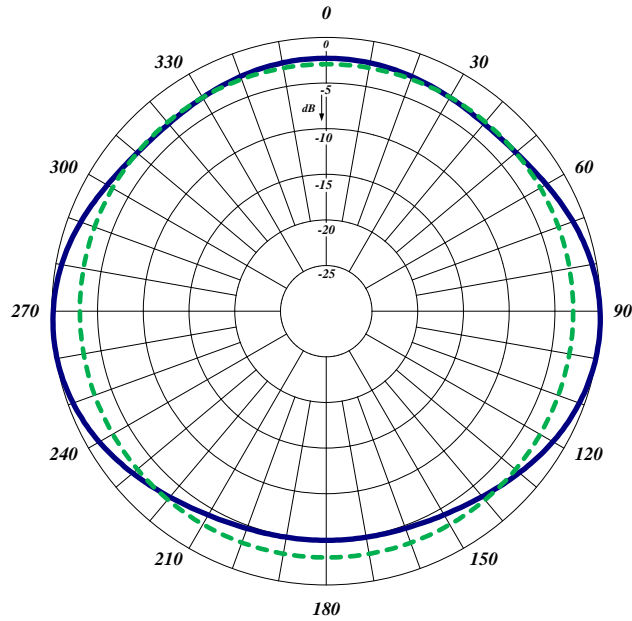
Length, inch (mm)	222 (5639)
Width (3/8 Wave Spacing), inch (mm)	40 (1016)
Weight, lbs (kg)	81 (36,8)
Weight with 1,57" (40mm) ice, lbs (kg)	418 (189)
Lateral Thrust lb (N)	462 (2056)
Lateral torque lb-ft (N-m)	1055 (1364)
Projected area ft ² (m ²)	7.92 (0.736)
Mounting Information	Mast 2.88" (73 mm) O.D.



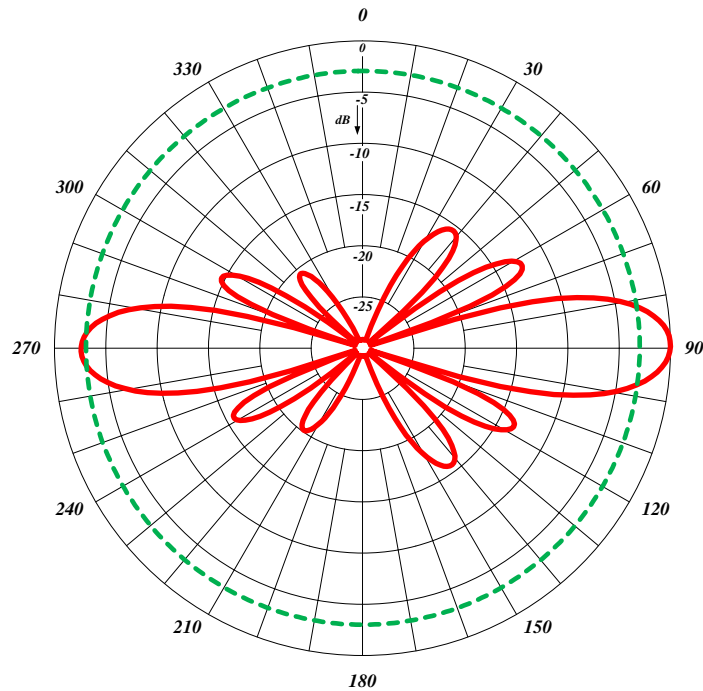
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These mechanical specifications were obtained using the requirements of CAN/CSA-S37-01 Standard "Antenna, Towers and Antenna-Supporting Structures"	Wind zone.....	Class D (1000 Pa)
	Ice Zone	Class III (40 mm)
	Reliability	Class I (Importance factor 1)
Lateral thrust, torsional moment and bending moment are based on worst case conditions (non-factored loads)		





Horizontal (Azimuth) Radiation pattern



Vertical (Elevation) Radiation pattern

