

VHF EXPOSED DIPOLES



134-178 MHz

F-33029D-TM-3/8

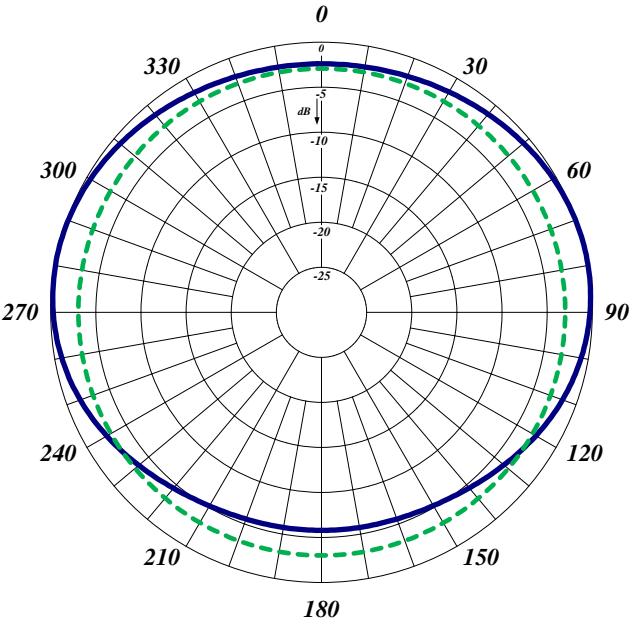
The F-33029D-TM-3/8 is a Wide Band Black Anodized Antenna. It is specifically designed for trunked Multicoupler such as X-pass systems. The 3/8 Wavelength dipole to mast spacing offers a radiation pattern between the elliptic and the offset. The antenna is made of Aluminium 6061-T6.

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-33029D-TM-3/8 has internal cabling design and is not field adjustable.

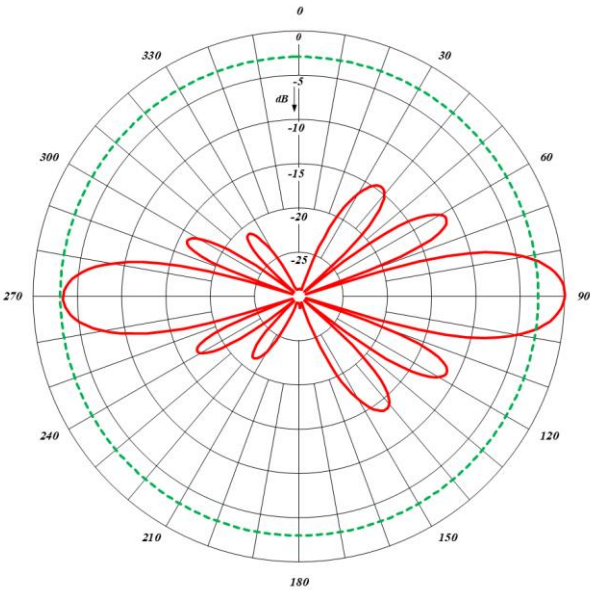
- 1/4 wavelength dipole-to-mast spacing is also available for offset radiation pattern.
- 1/2 wave length dipole-to- mast spacing available for bidirectional radiation pattern.

Electrical Specifications	F-33029D-TM-3/8
Frequency Range, MHz	138-174
Nominal Gain, dBd	8.0-8.5
Number of Dipoles	4
Bandwidth 1.5:1 VSWR, MHz	36
Polarization	Vertical
Pattern	Between elliptic and offset
Power Rating, Watts	450
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Passive Intermodulation	-107 dBm (-150 dBc)
Standard Termination	7/16 DIN male attached to end of 118 in (3000 mm) RG-214 Cable, 4.3/10 connector available upon request
Mechanical Specifications	F-33029D-TM-3/8
Length, in (mm)	246 (6248)
Width (3/8 Wave Spacing), in (mm)	33 (838)
Weight, lbs. (kg)	137 (62)
Weight with 1,57" (40mm) ice, lbs (kg)	568 (258)
Lateral Thrust lb (N)	540 (2402)
Bending Moment at top-clamp lb-ft (N-m)	3871 (5248)
Projected Area, ft ² (m ²)	11.4 (1.06)
Mounting Information	4.5" (114 mm) O.D





Horizontal (Azimuth) Radiation Pattern



Vertical (Elevation) Radiation Pattern

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)		