

## HEAVY DUTY VHF EXPOSED DIPOLE

138-174 MHz

### 870 Series VHF Exposed Dipoles

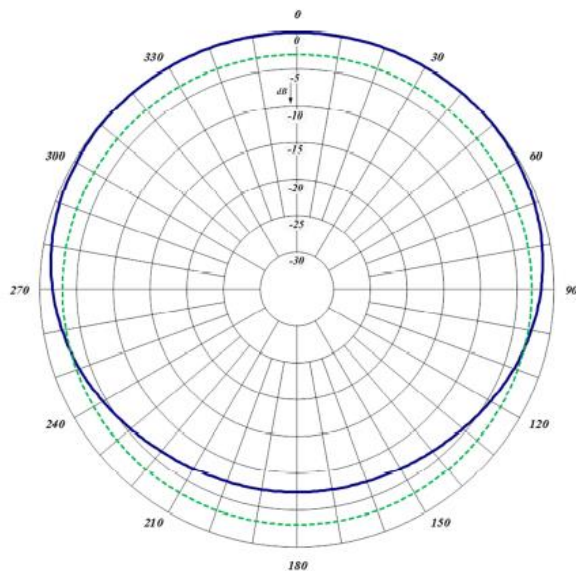
The 878F-70-SM-1/4 is a wide band antenna designed for multicoupled systems. The antenna offers a choice of radiation patterns that are determined by the dipole-to-mast spacing. The 878F-70-SM-1/4 has an internal cabling and is not field adjustable.

- DC ground for lightning protection
- Black anodized version is available. Please contact technical support for consultation.
- Type Din Connector available upon request.

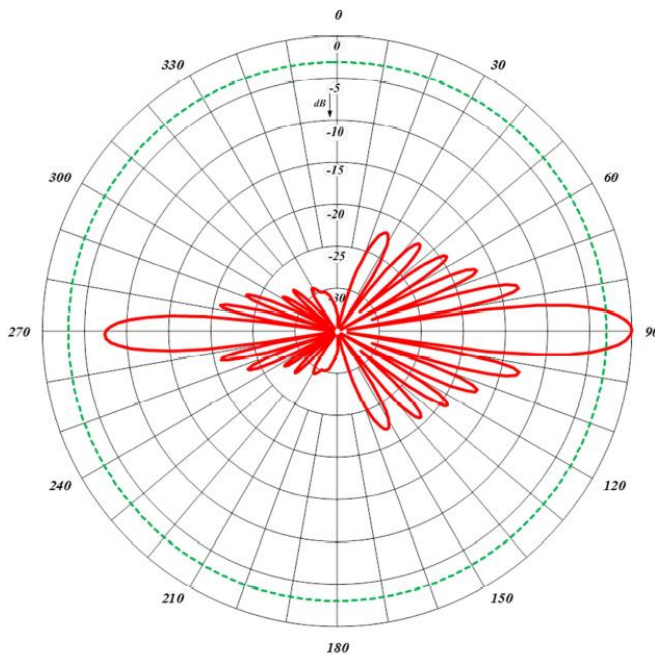
Electrical Specifications	878F-70-SM-1/4
Frequency Range, MHz	138-174
Nominal Gain, dBd	11 – 11.5
Number of Dipoles	2
Bandwidth 1.5:1 VSWR, MHz	1.5
Polarization	Vertical
Pattern	Offset
Power Rating, Watts	450
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Standard Termination	Type N Male
Mechanical Specifications	878F-70-SM-1/4
Length, in (mm)	413 (10490)
Width (1/4 Wave Spacing), in (mm)	22 (559)
Weight, lbs. (kg)	125 (56.7)
Rated Wind Velocity, No Ice, mph (km/h)	130 (209)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	90 (145)
Lateral Thrust @ 100 mph, wind, lbs. (N)	304 (1352)
Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)	223 (302)
Projected Area, ft <sup>2</sup> (m <sup>2</sup> )	13.7 (1.27)
Mounting Information Mast O.D. (mm)	2.875 (73)



878F-70-SM



Horizontal radiation pattern



Vertical radiation pattern