

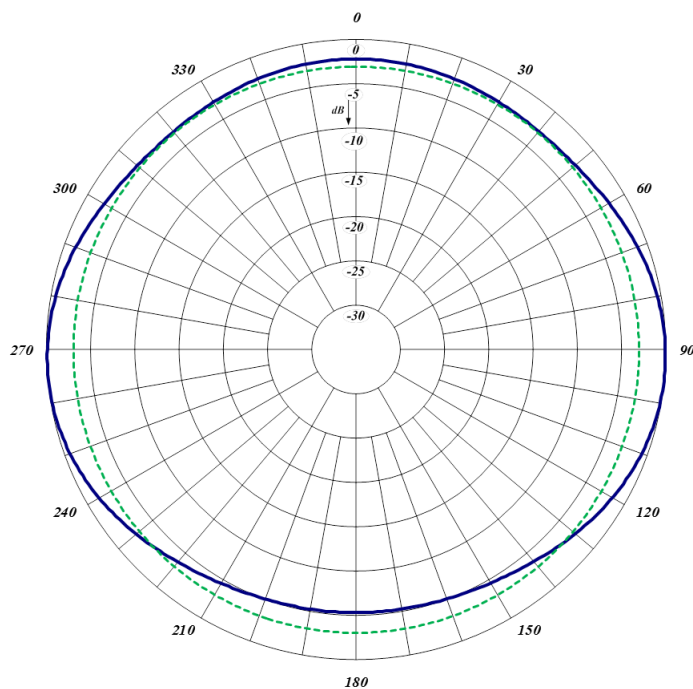
870 Series VHF Exposed Dipoles

The 878F-70-HDW-1/2 is a wide band, heavy duty, welded antenna designed for multicoupled systems. The antenna offers a choice of radiation patterns that are determined by the dipole-to-mast spacing. The 878F-70HDW-1/2 has an internal cabling and is not field adjustable. This antenna can have either a top mount (TM) or a side mount (SM) configuration.

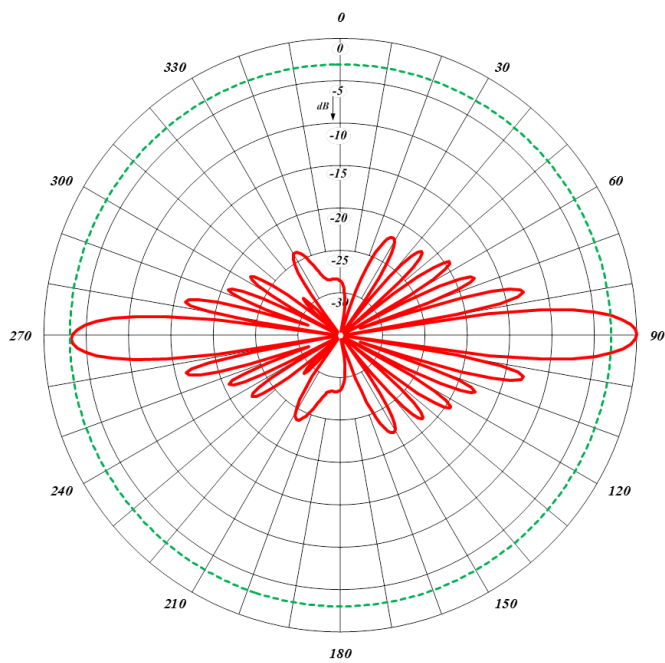
- DC ground for lightning protection.
- Black anodized version is available. Please contact technical support for consultation.
- Type Din Connector available upon request.

Electrical Specifications	878F-70-HDW-1/2
Frequency Range, MHz	138-174
Nominal Gain, dBd	11 – 11.5
Number of Dipoles	2
Bandwidth 1.5:1 VSWR, MHz	36
Polarization	Vertical
Pattern	Bidirectional
Power Rating, Watts	450
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Standard Termination	Type N Male
Mechanical Specifications	878F-70-HDW-1/2
Length, in (mm)	419 (10642)
Width (1/2 Wave Spacing), in (mm)	42 (1067)
Weight, lbs. (kg)	128 (58)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	125 (201)
Lateral Thrust @ 100 mph, wind, lbs. (N)	402 (1788)
Torsional Moment Lbs•ft (N•m)	336 (442)
Bending Moment @ top clamp: 200 mph, ft.*lb (N*m)	223 (302)
Projected Area, ft ² (m ²)	15 (1.39)
Mounting Information Mast O.D. (mm)	2.875 (73)





Horizontal radiation pattern



Vertical radiation pattern