

## DUAL EXPOSED DIPOLE ARRAY

### 774-70-HDBWTM-1/4



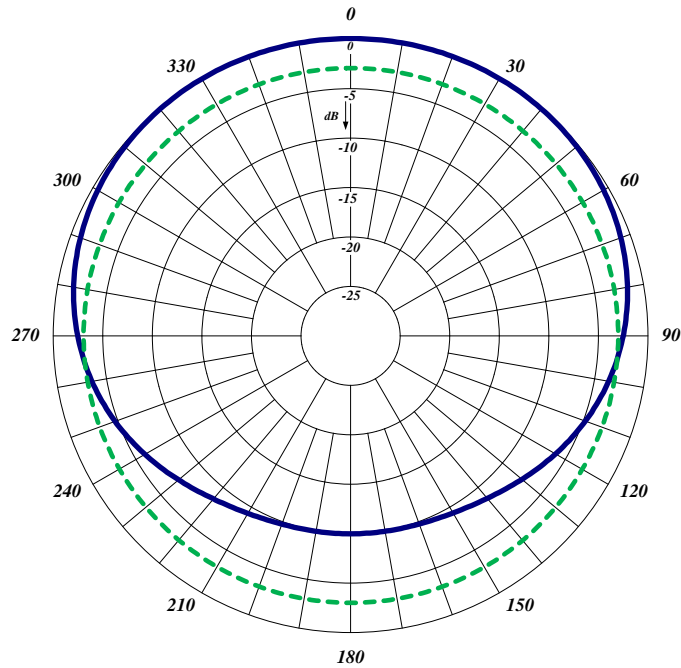
406-512 MHz

The 774-70-HDBWTM-1/4 is a Wide Band, Black Anodized, Heavy Duty Welded, UHF Antenna. It is an extremely rugged 4 dipole Antenna designed for multicoupled systems. All our antennas can be customized to your particular applications. Our antennas can be configured for side mount or top mount. This antenna is configured for top mount. The 774-70-HDBWTM-1/4 antenna has internal cabling and fixed dipole-mast spacing. The antenna has either 406-470 MHz or 450-512 MHz split.

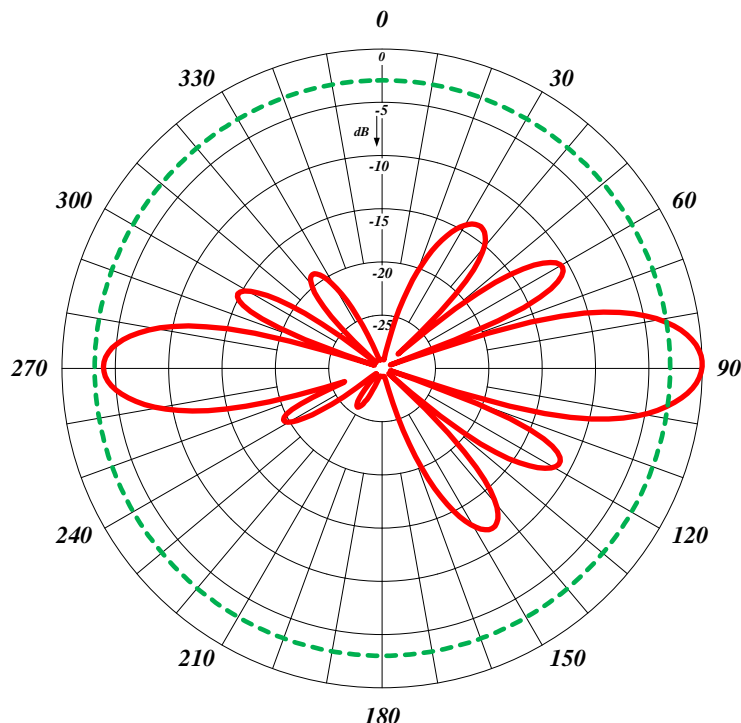
- Low VSWR version with maximum gain over specified frequency.
- Heavy Duty and Black Anodized version.
- This antenna is 1/4 wavelength spacing version offering offset radiation pattern.
- Standard connector is N-Male and optional 7/16 DIN or 4.3-10 is also available.

Electrical Specifications	774-70-HDBWTM-1/4
Frequency Range, MHz	406-512
Nominal Gain, dBd	8.0-8.5
Number of Dipoles	4
Bandwidth 1.5:1 VSWR, MHz	64
Polarization	Vertical
Pattern	Offset
Power Rating, Watts	300
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Temperature Range	-40 to +60 C°
Standard Termination	Type N-Male for standard version – DIN 7/16 or 4.3/10 Low-PIM version
Mechanical Specifications	774-70-HDBWTM-1/4
Length, in (mm)	126 (3200)
Width (1/2 Wave Spacing), in (mm)	10 (254)
Weight, lbs. (kg)	24 (11)
Rated Wind Velocity, No Ice, mph (km/h)	175 (282)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	150 (241)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	75 (34)
Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	193 (26.7)
Projected Area, ft² (m²)	2.88 (0.128)
Mounting Information Mast O.D. (mm)	2.38" (60)





Horizontal Radiation pattern



Vertical Radiation pattern