

### 290-70-HD Yagi Antennas

The 290-70-HD is heavy duty VHF Yagi Antenna. The 290-70-HD has 2 versions: the Center Boom (CB) or End Boom (EB).

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.



### Order Information

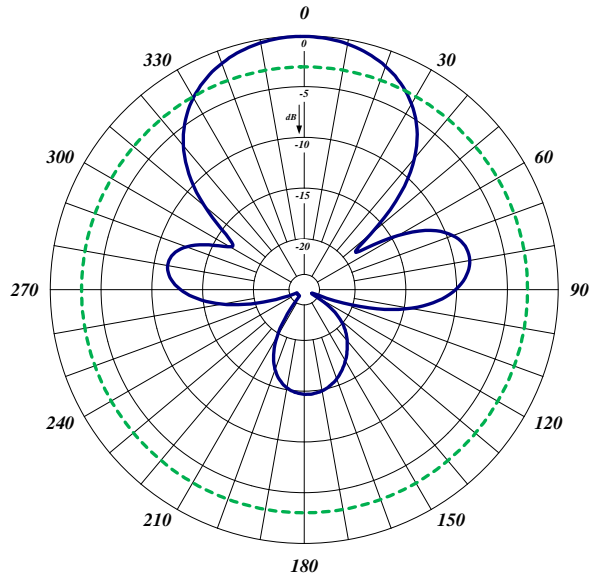
#### Part Number Frequency

Center Boom	End Boom	Split
290-70-HDCB*1	290-70-HDEB*1	138-143 MHz
290-70-HDCB*2	290-70-HDEB*2	143-148 MHz
290-70-HDCB*3	290-70-HDEB*3	147-153 MHz
290-70-HDCB*4	290-70-HDEB*4	152-158 MHz
290-70-HDCB*5	290-70-HDEB*5	157-163 MHz
290-70-HDCB*6	290-70-HDEB*6	162-168 MHz

Electrical Specifications	290-70-HD
Frequency Range, MHz	138-174
Nominal Gain, dBd	9.5
Number of Elements	6
Bandwidth 1.5:1 VSWR, MHz (Ctr. Freq.%)	4
Polarization	Vert. or Horiz.
Horizontal Beamwidth (Ver. Pol.)	62°
Vertical Beamwidth ( Ver. Pol.)	50°
Front to Back, dB	17
Pattern	Direct
Power Rating, Watts	350
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Standard Termination	Type N Male
Mechanical Specifications	290-70-HD
Length, in (mm)	120 (3048)
Width, in (mm)	43 (1092)
Weight, lbs. (kg)	22.6 (10.3)
Weight (40mm ice), lbs. (kg)	206 (93.5)
Rated Wind Velocity, No Ice, mph (km/h)	130 (209)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	95 (153)
Lateral Thrust @ 100 mph, wind, lbf (N)	92 (407)
Projected Area, ft <sup>2</sup> (m <sup>2</sup> )	3.5 (0.33)
Mast O.D. in (mm)	2.38 (60)
Mounting Hardware Included	115-85 Clamp



Horizontal radiation pattern  
Vertical Polarization



Vertical radiation pattern  
Vertical Polarization

