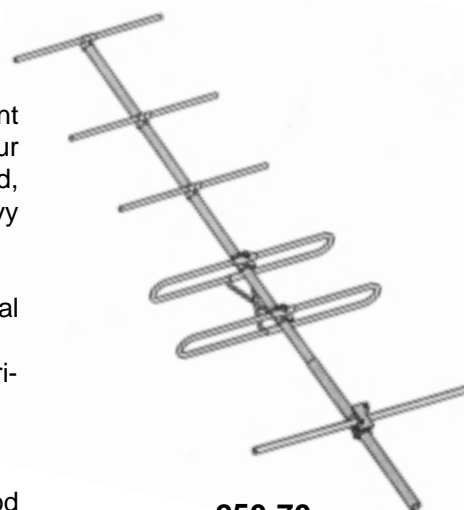


CP290 Series VHF Yagi Antennas

The 290 Series VHF Yagi Antennas are available in 2, 3, and 6 element configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Welded, Vertically or Horizontally Polarized, and we have many versions of Heavy Duty Ruggedness are all available.

- Each antenna has a rugged design to withstand harsh environmental conditions
- The mounting hardware supplied will allow for either vertical or horizontal polarization
- DC ground for lightning protection
- Option to have the entire antenna welded for added durability
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation



250-70

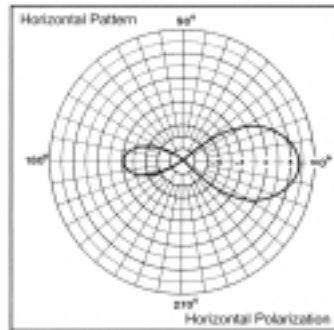
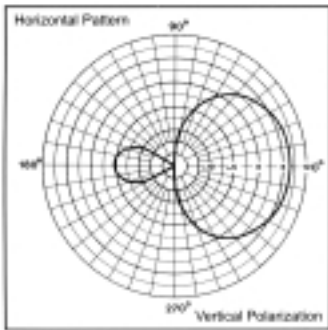
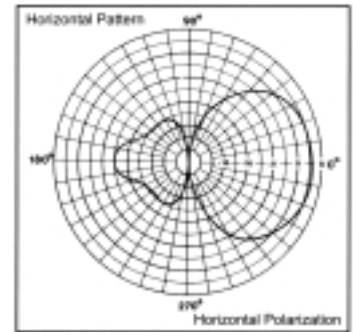
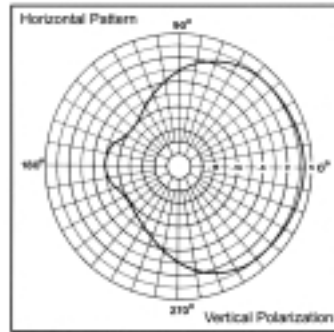
Electrical Specifications	291-70	295-70	290-70	250-70
Frequency Range, MHz	138-174	138-174	138-174	138-174
Nominal Gain, dBd	3.5	6.5	9.5	7
Number of Elements	2	3	6	6
Bandwidth: 1.5:1 VSWR, MHz (Ctr. Freq.%)	3.75%	4%	4%	36 @ 2:1
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Ver. Pol)	140°	90°	62°	80°
Vertical Beamwidth (Ver. Pol)	70°	36°	50°	60°
Front to Back, dB	15	12	17	25
Pattern	Direct.	Direct.	Direct.	Direct.
Power Rating, Watts	350	350	350	250
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male

Mechanical Specifications				
Length, inches (mm)	54 (1372)	60 (1524)	108 (2743)	108 (2743)
Width, inches (mm)	43.6 (1107)	43 (1092)	42 (1067)	42 (1067)
Weight, lbs (kg)	4.0 (1.8)	6.0 (2.7)	12.0 (5.4)	12.0 (5.4)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	150 (241)	150 (241)	100 (161)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	140 (225)	105 (169)	89 (143)	85 (137)
Lateral Thrust @ 100mph wind, lbs (kg)	47 (21)	48 (22)	87 (39)	87 (39.5)
Bending Moment @ top clamp: 100mph, ft*lb (kg*m)	113 (15.6)	185 (25.8)	209 (28.9)	184 (249)
Equiv. Flat Plate Area, ft ² (m ²)	1.0 (0.093)	1.4 (0.13)	2.10 (0.195)	1.45 (0.13)
Mounting Information: Mast O.D.	181-85 clamp	181-85 clamp	115-85 clamp	115-85 clamp

Order Information	End Boom	Welded	Heavy Duty	Black Anodized (2) Stacked	
291-70	291-70EB	291-70W	291-70HD	291-70B	n/a
295-70	295-70EB	295-70W	295-70HD	295-70B	n/a
290-70	290-70EB	290-70W	290-70HD	290-70B	298-70
250-70	250-70EB	250-70W	250-70HD	250-70B	n/a



291-70



295-70



290-70

