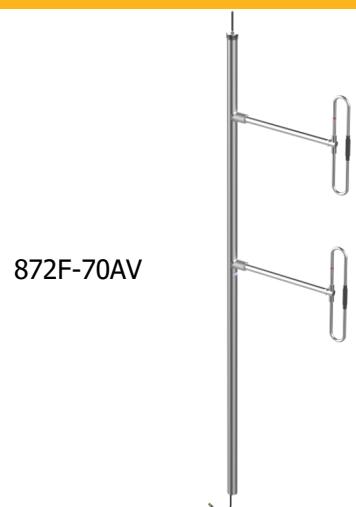


VHF EXPOSED DIPOLES

870 Series VHF Exposed Dipole

The 870 Series AV – Aviation Series VHF Exposed Dipoles are available in 1, 2, 4, 8 and dual dipole configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be black anodized, Adjustable or fixed, side mount or top mount, and heavy duty versions are available.

- Each antenna is offered in a 1/4 or 3/8 wave spacing versions.
- The 87XA-70 has external cabling and a field-adjustable pattern.
- The 87XF-70 has internal cabling and fixed dipole-mast spacing.
- Heavy duty versions are available. Please contact Comprod Inc. Technical support technician for consultation.



Electrical Specifications	871F-70AV	872F-70AV	874F-70AV
Frequency Range, MHz	118-138	118-138	118-138
Nominal Gain, dBd	2.0-2.5	5.0-5.5	8.0-8.5
Number of Dipoles	1	2	4
Bandwidth 1.5:1 VSWR, MHz	20	20	20
Polarization	Vertical	Vertical	Vertical
Pattern	Offset	Offset	Offset
Power Rating, Watts	200	450	450
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male

Mechanical Specifications	871F-70AV	872F-70AV	874F-70AV
Length, in (mm)	78 (1981)	162 (4115)	294 (7468)
Width (3/8 Wave Spacing), in (mm)	54 (1372)	54 (1372)	55 (1397)
Weight, lbs. (kg)	16 (7.3)	31 (14.1)	93 (42)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)	145 (3341)	120 (193)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	105 (169)	100 (161)	95 (153)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	57 (26)	120 (54.5)	231 (105)
Bending Moment @ top clamp: 100 mph, ft*lb (kg*m)	82 (11)	420 (58)	1437 (199)
Projected Area, ft ² (m ²)	2.2 (0.2)	4.6 (0.43)	8.8 (0.82)
Mounting Information Mast O.D.	2.4" (61mm)	2.4" (61mm)	2.9" (73mm)

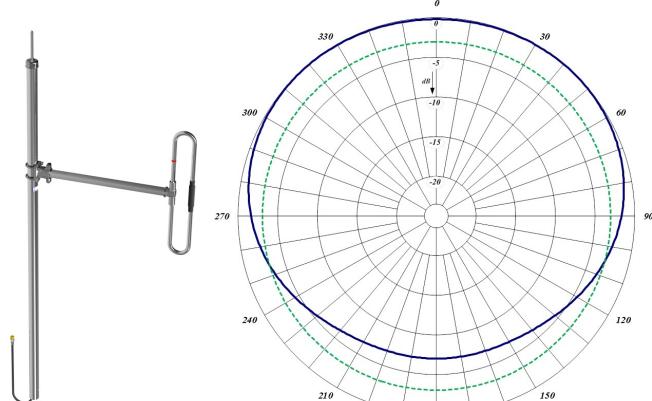
Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871-70AV	871A-70AV	871F-70AV-HD	871F-70AV-SM	871F-70AV-TM	871F-70AV-HDB
872-70AV	872A-70AV	872F-70AV-HD	872F-70AV-SM	872F-70AV-TM	872F-70AV-HDB
874-70AV	874A-70AV	874F-70AV-HD	874F-70AV-SM	874F-70AV-TM	874F-70AV-HDB

BASE STATION ANTENNAS



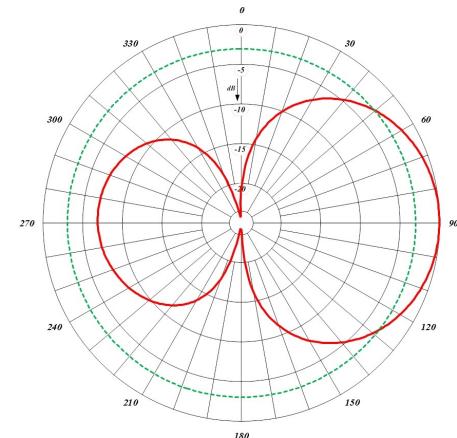
VHF EXPOSED DIPOLES

118-138MHz

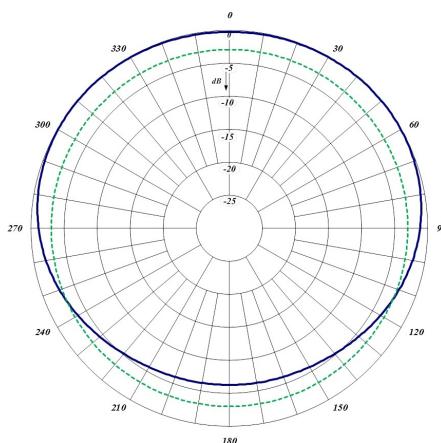


871F-70AV

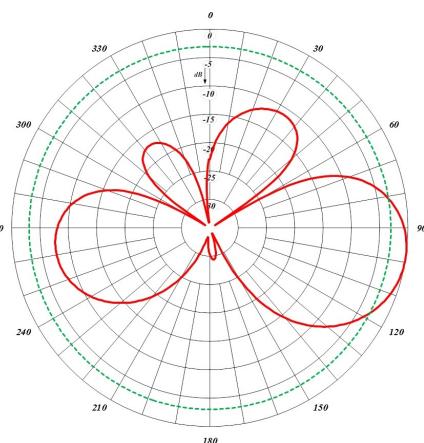
Quarterwave Spacing Horizontal



Quarterwave Spacing Vertical



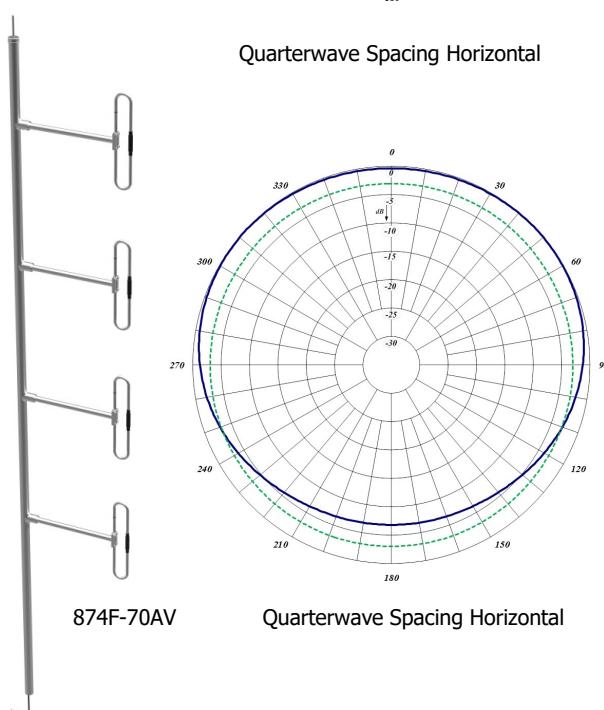
Quarterwave Spacing Horizontal



Quarterwave Spacing Vertical

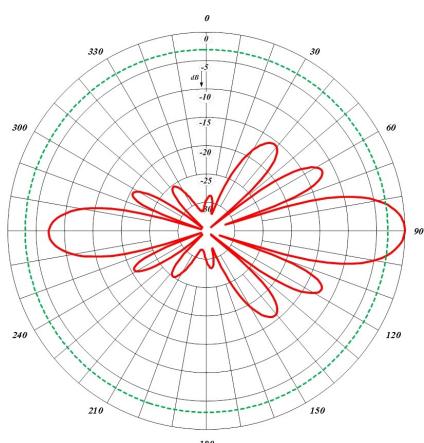


872F-70AV



874F-70AV

Quarterwave Spacing Horizontal



Quarterwave Spacing Horizontal