DUAL EXPOSED DIPOLE ARRAY

Dual Feed Exposed Dipole Array

The Dual Feed Exposed Dipole Arrays are available in many different configurations. VHF, UHF or 700/800/900 MHz antennas can be combined into one mast. These antennas can be mixed and matched with our 840, 870, 880, 770 and 790 series antennas. All of our antennas can be completely customized to your particular applications. Our antennas can be configured for side mount or top mount.

- Low VSWR version with maximum gain over specified frequency.
- Ideal for applications where costs are calculated per antenna.
- Heavy duty versions are available.
- Some of these antennas have an adjustable pattern for 3 dBd omnidirectional or 6 dBd offset coverage.

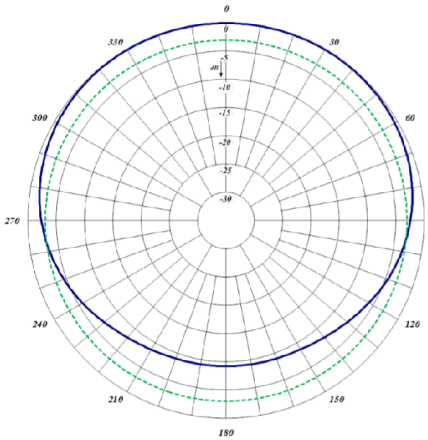
776-70

Electrical Specifications	776-70	845-70	876-70
Frequency Range, MHz	406-512	148-174	138-174
Nominal Gain, dBd	5.0-5.5	3.0 or 6.0	5.0-5.5
Number of Dipoles	2 sets of 2	2 sets of 2	2 sets of 2
Bandwidth VSWR, MHz	1.5:1 (106)	2:1 (14)	1.5:1 (36)
Polarization	Vertical	Vertical	Vertical
Pattern	Offset	Omni or Offset	Offset
Power Rating, Watts	300	500	300
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

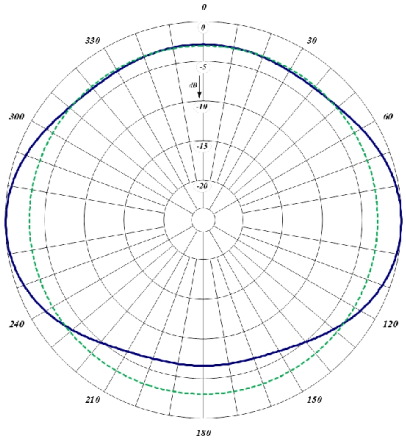
Mechanical Specifications	776-70	845-70	876-70
Length, in (mm)	126 (3200)	270 (6858)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	16 (406)	9 (229)	40 (1016)
Weight, lbs. (kg)	19 (8.6)	42 (19)	67 (30)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)	110 (177)	145 (233)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	150 (241)	80 (129)	95 (153)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	44 (20)	139 (63)	160 (72.6)
Bending Moment @ top clamp: 100 mph, ft*lb (kg*m)	193 (26.7)	514 (71)	1364 (188.7)
Projected Area, ft² (m²)	1.38 (0.128)	5.2 (0.48)	7 (0.65)
Mounting Information Mast O.D.	1.9" (48)	107-85 clamp	2.9" (61)

Order Information	Frequency	2*772-70	2*842-70	2*872-70	Side Mount	Top Mount	Black Anodized
776-70	406-512MHz	776-70	N/A	N/A	N/A	N/A	776-70HDB
845-70	148-162MHz	N/A	845-70*1	N/A	N/A	N/A	N/A
845-70	160-174MHz	N/A	845-70*2	N/A	N/A	N/A	N/A
876-70	138-174MHz	N/A	N/A	876F-70	876F-70SM	876F-70TM	876F-70HDB

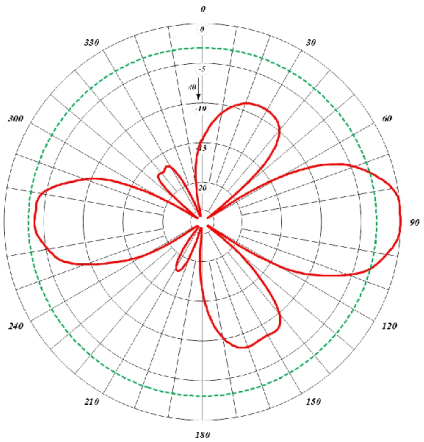
DUAL EXPOSED DIPOLE ARRAY



Quarterwave Spacing Horizontal



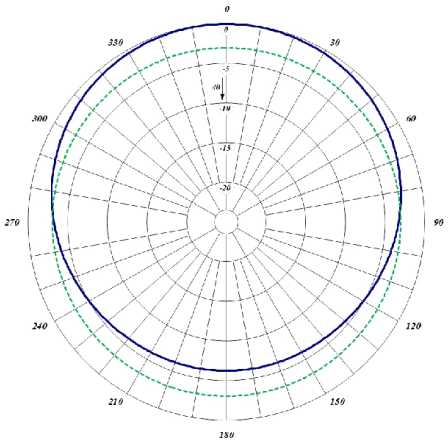
Halfwave Spacing Horizontal



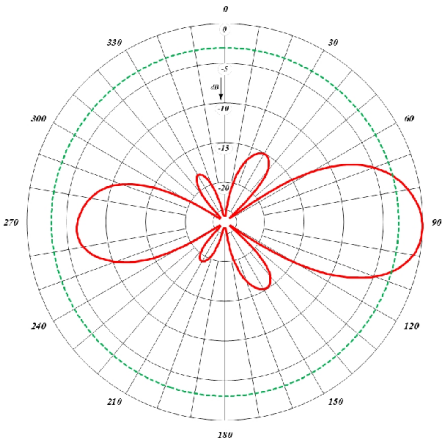
Halfwave Spacing Vertical

776-70

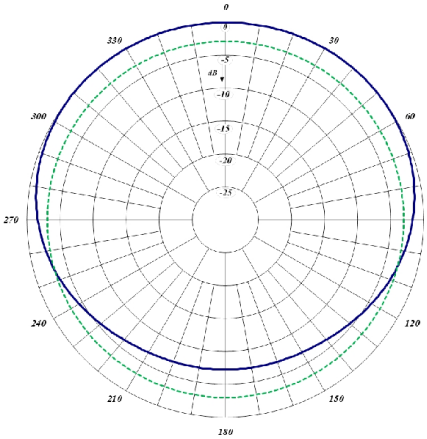
845-70



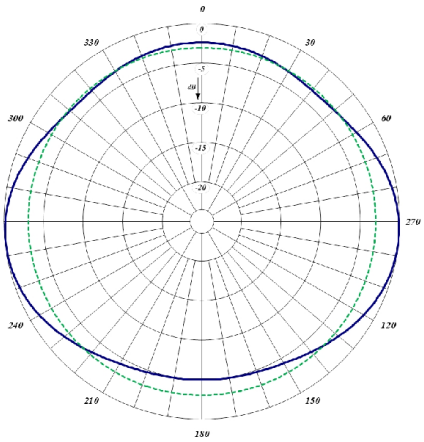
Horizontal



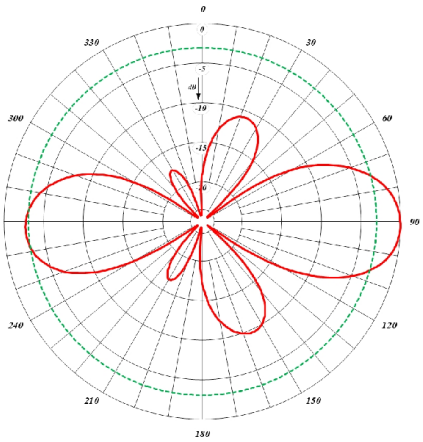
Vertical



Quarterwave Spacing Horizontal



Halfwave Spacing Horizontal



Halfwave Spacing Vertical

876F-70

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