

# VHF Antenna - Omnidirectional, Low-PIM/Hi-PIP, 5.5 dBd

## Model - DS1F06P36U-Series Antennas

Specifications	
Design Type	True Corporate Feed
Frequency Range	150-164 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3 <sup>rd</sup> Order
Bandwidth	14 MHz
Gain (average over BW)	5.5 dBd
Configuration	Single antenna
Beam Tilt (electrical downtilt)	(x) = - , 3 or 6 degrees
Vertical Beamwidth (E-Plane) typ.	16°
Impedance	50 ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	500 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector DS1F06P36U(x)D DS1F06P36U(x)M	7/16 DIN (F) 4.3-10 (F)
Equivalent Flat-Plate Area	3.7 sq. ft.
Lateral Windload Thrust @100mph	153 lbf.
Rated Wind Speed	150 mph (without ice) 127 mph (with ½" radial ice)
Total Length	22 feet
Mounting Mast Length	35 inches
Mounting Hardware (included)	DSH3V3N
Top Sway Brace (Recommended if side mounting antennas)	DSH2H3S (order separately)
Mast O.D.	2.5 inches
Radome O.D.	3.0 inches
Radome color	Horizon Blue
Weight, antenna and hardware	90 lbs.
Shipping Weight	110 lbs.
Invertibility	0° electrical down-tilt models are invertible. For other invertible tilt options contact dbSpectra at <a href="mailto:tech@dbspectra.com">tech@dbspectra.com</a>
Ordering information DS1F06P36U(x)D – 7/16 DIN Connector DS1F06P36U(x)M – 4.3-10 Connector	<ol style="list-style-type: none"> <li>1. Replace (x) in model number with Beam Tilt options.</li> <li>2. “..” in the beam-tilt options represents 0° down-tilt.</li> </ol>



### Features and Benefits

Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra’s multi-channel P25 PIP test bed. High PIP level is demanded by today’s digital systems!

PIM-rated Design – 3<sup>rd</sup>-Order performance better than -150 dBc.

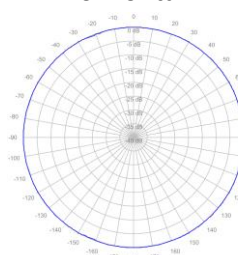
True Corporate Feed Array – provides for excellent gain and pattern consistency across a wider frequency range.

Sturdy Construction – Heavy-wall fiberglass radome minimizes tip deflection.

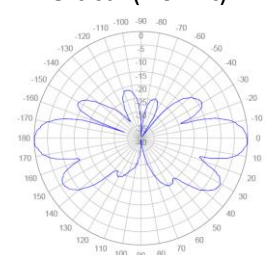
Excellent Lightning Protection – heavy internal conductor DC ground.

### Radiation Patterns:

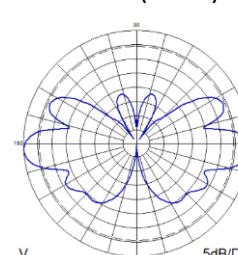
Horizontal



Vertical (No Tilt)



Vertical (3° DT)



Vertical (6° DT)

