

VHF Antenna - Omnidirectional, Low-PIM/Hi-PIP, Unity Gain

Models: DS1F00P36U-Series Antennas

Specifications	
Design Type	True Corporate Feed
Frequency Range	150-164 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3 rd Order
Bandwidth	14 MHz
Gain (average over BW)	Unity (0 dBd/2.1 dBi), actual gain
Configuration	Single antenna (1-port)
Beam Tilt (electrical downtilt)	None (0 degrees)
Vertical Beamwidth (E-Plane), typ.	60°
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 DS1F00P36U(x)D DS1F00P36U(x)M	7/16 DIN (F) 4.3-10 (F)
Total Length	5.9 feet
Equivalent Flat-Plate Area	1.0 square feet
Lateral Windload Thrust @100mph	41 lbf.
Rated Wind Speed	250 mph (without ice) 212 mph (with ½" radial ice)
Mounting Mast Length	21 inches
Mounting Hardware (included)	DSH2V3R
Radome diameter	3.0 inches
Mast diameter	2.5 inches
Radome color	Horizon Blue
Weight, antenna and hardware	25 lbs.
Shipping Weight	33 lbs.
Invertibility	0° electrical down-tilt models are invertible. For other invertible tilt options contact dbSpectra at tech@dbspectra.com
Ordering Information	DS1F00P36U(x)D – 7/16 DIN Connector DS1F00P36U(x)M – 4.3-10 Connector



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 – 3rd-Order performance better than -150 dBc.

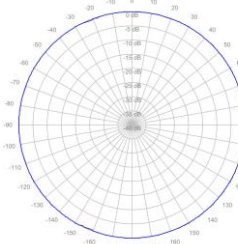
True Corporate Feed Array – provides for excellent gain and pattern consistency across a wider frequency range.

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

Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Patterns:

Horizontal



Vertical

