

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

Model - DS3X00P36U-Series Antennas

"Heavy-Duty"

Specifications	
Design Type	True Corporate Feed
Frequency Range	380-470 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3 rd Order
Bandwidth	90 MHz
Gain (average over BW)	0 dBd
Configuration	Single antenna, H.D.
Beam Tilt	(x) = - (0 degrees)
Vertical Beamwidth (E-Plane)	60°
Null fill and upper sidelobe supp.	No
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 DS3X00P36U(x)D DS3X00P36U(x)M	7/16 DIN (F) 4.3-10 (F)
Equivalent Flat-Plate Area	0.50 sq. ft.
Lateral Windload Thrust @100mph	21 lbf.
Wind Speed rating	325 mph (without ice) 276 mph (with ½" radial ice)
Total Length	3.0 feet
Mounting Mast Length	9 inches
Mounting Hardware (included)	DSH1V3R
Mounting Mast O.D.	2.5 inches
Radome O.D.	3.0 inches
Radome color	Horizon Blue
Weight (approx.)	12 lbs.
Shipping Weight (approx.)	20 lbs.
Invertibility	0° electrical down-tilt models are invertible. For other invertible tilt options contact dbSpectra at tech@dbspectra.com
Ordering Information DS3X00P36U(x)D – 7/16 DIN Connector DS3X00P36U(x)M – 4.3-10 Connector	1. Replace (x) in model number with Beam Tilt options. 2. "-" in the beam-tilt options represents 0° down-tilt.



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 – better than -150 dBc.

Broad operational bandwidth – assures maximum performance and flexibility over the entire 380-470 MHz band.

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

Sturdy Construction – Heavy-wall fiberglass radome for the most demanding environments

Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Pattern

