

# 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<br>(2 x 20W sources)   | -150 dBc, 3 <sup>rd</sup> 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<br>DS3X00P36U(x)D<br>DS3X00P36U(x)M  | 7/16 DIN (F)<br>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)<br>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 <a href="mailto:tech@dbspectra.com">tech@dbspectra.com</a>           |
| Ordering Information<br>DS3X00P36U(x)D – 7/16 DIN Connector<br>DS3X00P36U(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 – 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

