UHF Antenna - Omnidirectional, Low-PIM/Hi-PIP, 8.8 dBd

Model - DS4A09P36U-Series Antennas; DS4A09P3IU-Inverted Series Antennas

Specifications	
Design Type	True Corporate Feed
Frequency Range	406-436 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc
Bandwidth	30 MHz
Gain (average over BW)	8.8 dBd
Configuration	Single antenna
Beam Tilt (electrical down-tilt)	(x) = - (0 degree)
Vertical Beamwidth (E-Plane)	7.5°
Null fill and upper sidelobe supp.	Yes
Impedance	50 ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	500 W (each antenna)
Peak Instantaneous Power	25 kW (each antenna)
Polarization	Vertical
Lightning Protection	Direct Ground
Connector DS4A09P36U(x)D DS4A09P36U(x)M	 7/16 DIN (F) 4.3-10 (F)
Equivalent Flat-Plate Area	3.31 sq. ft.
Lateral Windload Thrust @100mph	139 lbf.
Survival Wind Speed Rating	160 mph (without ice) 136 mph (with ½" radial ice)
Total Length	20 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 (approx.)	70 lbs.
Shipping Weight (approx.)	95 lbs.
Invertibility	Antennas are not invertible. For invertible tilt options contact dbSpectra at *tech@dbspectra.com*
Ordering Information DS4A09P36U(x)D – 7/16 DIN Connector DS4A09P36U(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

Antennas from dbSpectra provide long term, trouble-free service in severe environments!

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.

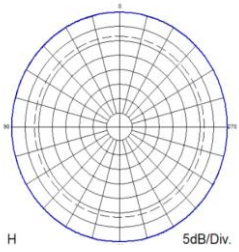
True Corporate Feed Array – provides for excellent gain and pattern consistency across a wider frequency range.

PIM Rated Design – better than -150 dBc.

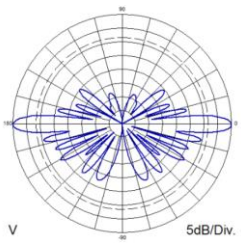
Sturdy Construction – Heavy-wall fiberglass radome minimizes tip deflection.

Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Patterns



Horizontal



Vertical (No Downtilt)