

700/800 MHz Antenna - Omnidirectional, Low-PIM, Hi-PIP, 11.5 dBd Models DS7C12P36U-D, DS7C12P36U2D, and DS7C12P36U4D

Specifications	
Design Type	True Corporate Feed
Frequency Range	764-869 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3 rd Order
Bandwidth	105 MHz
Gain - (average over BW)	11.5 dBd
Configuration	Single antenna
Beam Tilt (electrical downtilt)	None (0°), 2°, or 4°
Vertical Beamwidth (E-Plane) typ.	3.5°
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	7/16 DIN female
Equivalent Flat-Plate Area	3.4 sq. ft.
Lateral Windload Thrust @100mph	144 lbf.
Rated Wind Speed	150 mph (without ice)
Total Length	20.5 feet
Mounting Mast Length	35 inches
Mounting Hardware (included)	DSH3V3N Low-torsion
Mast O.D.	2.5 inches
Radome color	Horizon Blue
Weight, antenna and hardware	82 lbs.
Shipping Weight	107 lbs.
Invertability	The 0° (no electrical downtilt) model is invertible



Features and Benefits

Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's 12-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.

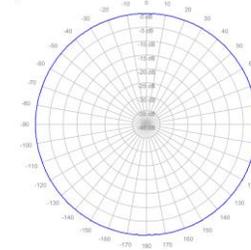
PIM-rated Design – 3rd-Order performance better than -150 dBc.

Excellent Lightning Protection – heavy internal conductor DC ground.

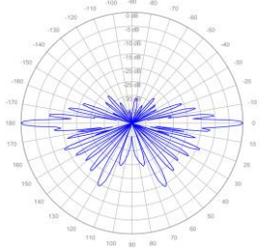
Sturdy Construction: Heavy-wall fiberglass radome minimizes tip deflection

Radiation Patterns:

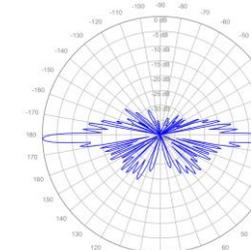
Horizontal (All)



Vertical (No Tilt)



Vertical (2 deg Tilt)



Vertical (4 deg Tilt)

