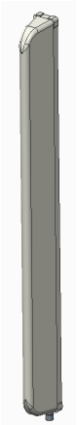
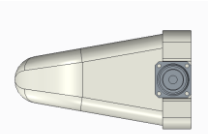
700/800 MHz Antenna – Directional Panel, Low-PIM/Hi-PIP, 10/10.5 dBd

Offset Horizontal Patterns: Model - DS7C11PPYU-Series Antennas

Bidirectional Horizontal Patterns: Model - DS7C10PPVU-Series Antennas

Specifications	
Design Type	Slim-line Panel, 8-foot class
Frequency Range	764-869 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3rd Order
Bandwidth	105 MHz
Gain (average over BW)	Offset: 10.5 dBd max. Bi-directional: 10 dBd max.
Front to Back Ratio, no tilt/typ.	Offset Models: 14 dB Bi-directional Models: 10 dB
Horizontal Beamwidth (H-Plane), typ.	Offset Models: 175˚ Bi-directional Models: 220˚
Beam Tilt (electrical down-tilt)	(x) = - , 2 , 4 , 6 , or 8 degrees
Vertical Beamwidth (E-Plane), typ.	7.5˚
Impedance	50 Ohms
Null fill	Included
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 (Offset/Bi-directional) DS7C11PPYU(x)D / DS7C10PPVU(x)D DS7C11PPYU(x)M / DS7C10PPVU(x)M	 7/16 DIN (F) 4.3-10 (F)
Length x Width x Depth, not including clamps	107 in. x 3.3 in. x 8 in.
Equivalent Flat-Plate Area – max. (side)	6.0 sq. ft.
Lateral Windload Thrust @100mph	240 lbf. (max.)
Wind Speed rating	160 mph (without ice)
Mounting Hardware (included)	Pipe-mount kit, fits 2 - 4" diameter vertical members
Spacing between clamp locations	42 inches x 2 (vertical)
Mechanical Downtilt kit (optional)	Available, DSH2VDT4P (purchase separately)
Radome material and color	ABS, light gray
Weight, antenna, and hardware	25 lbs. (approx.)
Shipping Weight	35 lbs. (approx.)
Invertibility	Antennas are not invertible. For inverted options contact dbSpectra at *tech@dbspectra.com*
Ordering Information (Offset/Bi-directional) With 7/16 DIN Connector: DS7C11PPYU(x)D / DS7C10PPVU(x)D With 4.3-10 Connector: DS7C11PPYU(x)M / DS7C10PPVU(x)M	1. Replace (x) in the model number with Beam Tilt options. 2. "-" in the beam-tilt options represents 0˚ down-tilt.





Bottom View

Features and Benefits:

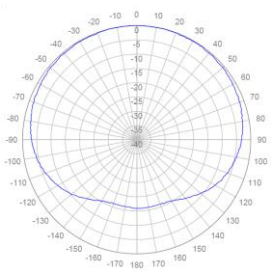
Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's multi-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.

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

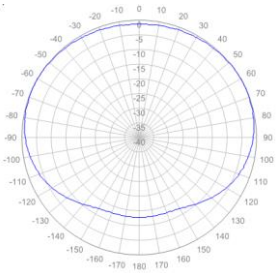
Specific pattern options for maximum versatility and performance in severe environments.

Radiation Patterns:

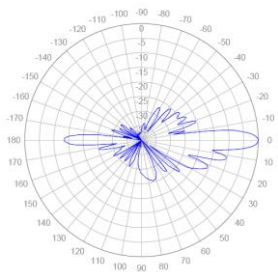
Horizontal: *Offset Models*



Bi-directional Models



Vertical: Offset Model



Bi-directional Models