

## 750 MHz Antenna – Directional Panel, Low-PIM/Hi-PIP, 13.5 dBd Models SP7U14PPTK-D, SP7U14PPTKxD\*

Specifications	
Design Type	Directional Panel – 8-foot-class Antenna
Frequency Range	757-788 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc or better, 3 <sup>rd</sup> Order, 100% tested
Bandwidth	31 MHz
Gain - dBd (average over BW)	13.5 dBd
Horizontal pattern, nom.	120 degrees
Beam Tilt (electrical downtilt) *Downtilt options:	None (0°) standard 2°, 4°, 6°, or 8°
Vertical Beamwidth (E-Plane), typ.	9°
Impedance – Ohms	50
Null fill	Included
VSWR, better than:	1.35:1 or better
Average Power Rating	500 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	7/16 DIN female
Height x Width x Depth – inches (not including clamps)	96 x 6.5 x 6
Wind Speed rating	125 mph (without ice)
Mounting Hardware (included)	Pipe-mount kit, fits 2 – 4” diameter vertical members
Mechanical Downtilt kit	Included, 3-point mount. Allows up to 15-deg. of tilt.
Radome material and color	ABS, light gray
Weight, antenna and hardware	40 lbs.
Shipping Weight	50 lbs.
Invertibility	No, not designed to be inverted due to pattern shaping



### Features and Benefits

High-performance directional Panel antenna optimized for 757-788 MHz Utility applications requiring strong pattern control in a 120-degree Horizontal-aperture package.

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

PIM-rated Design – 100% factory tested 3<sup>rd</sup>-Order performance better than -150 dBc.

Note: “x” denotes electrical downtilt option, with 2, 4, 6 or 8 degrees.

Patterns: Horizontal and Vertical (@0-deg Tilt)

