698-806 MHz

700 MHz Band

power antenna
MANUFACTURING INC

700 MHz Base Station Sector Panel Antenna

Model SVP700-120-14

Broadband sixteen dipole panel covering the 698-806 MHz spectrum for the newly licensed 700 MHz Band. The radiating elements and structural dipoles are entirely welded to the support spine. This results in an enhanced reduction in PIM, even after many years of being in service.

The radome covering the dipoles and internal feed conductors allow this antenna to operate reliably under extreme snow, rain, frost, or icing conditions.

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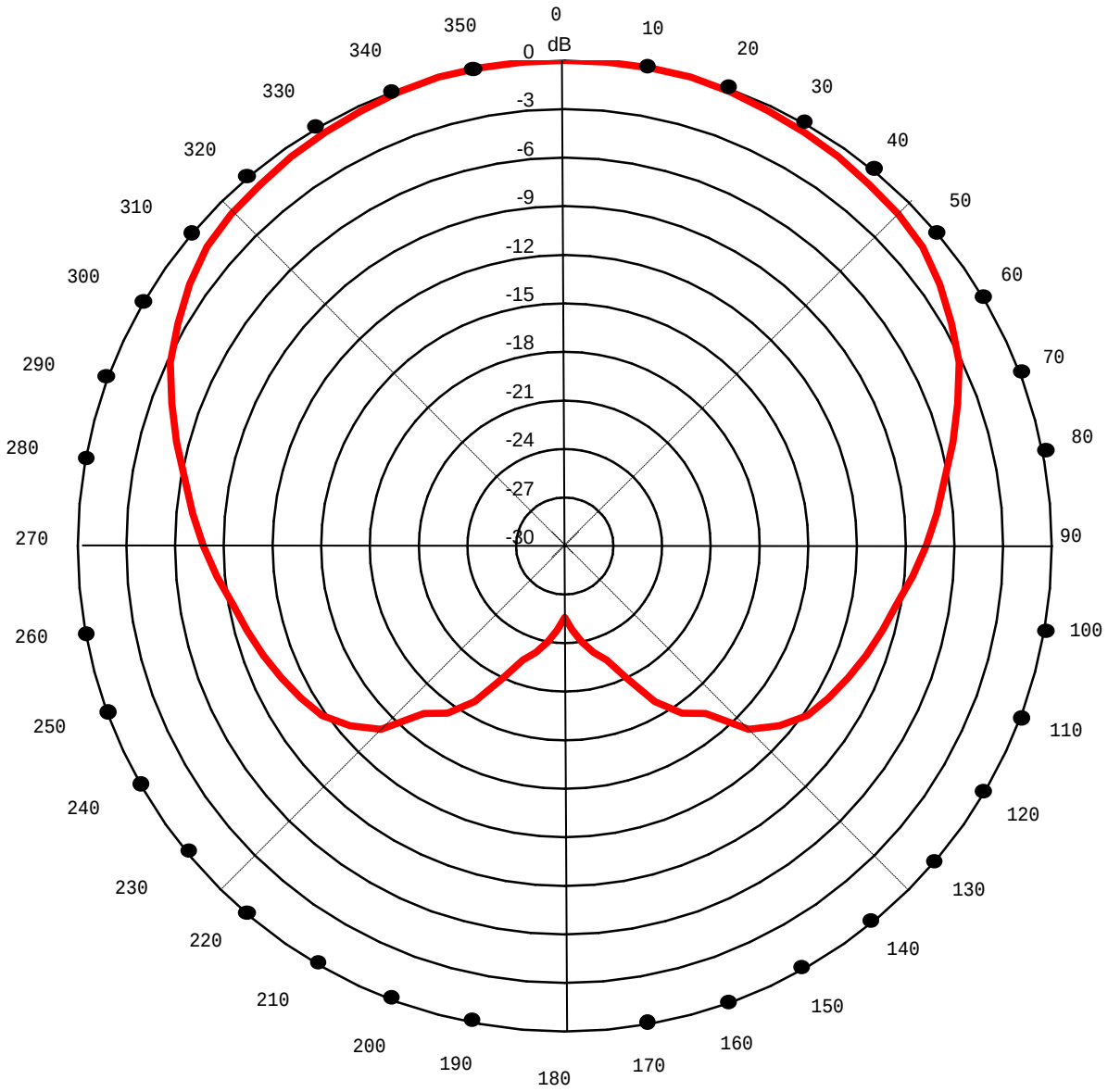
Electrical

Frequency:	698-806 MHz
Gain:	14.5 dBd (16.6 dBi) w/o electrical beam tilt
Beam width:	120 degrees at 750 MHz (-3dB pts)
Impedance:	50 ohms
VSWR:	<1.5:1 (1.25:1 typical)
Polarization:	Vertical
Max. Input Power:	500W standard, higher input power available
PIM:	< -135 dBc
Input Connector:	N female
F/B Ratio:	22 dB
XPD:	24 dB typical
Beam tilt:	Any degree of electrical or mechanical available

Mechanical

Weight:	70 lbs (without mounting hardware)
Mounting:	Hot dipped galvanized steel, customized to tower spec or standard pipe OD
Radiating Elements:	Structural Aluminum 16 dipole panel with machined brass connectivity
Reflector:	Galvanized sheet metal
Radome:	UV stabilized ASA
Grounding:	Antenna and radiating elements are fully DC grounded via the mounting hardware for lightning protection.
Dimensions:	350mm wide X 3000mm long X 180mm deep
Wind load:	2.6 kN Frontal, 1.0 kN Lateral @ 160 km/h
Vertical Height Req'd:	3.2 m / 10 feet

Horizontal Plane – *SVP700-120-14*



Vertical Plane – *SVP700-120-14*