470 - 700 MHz

TVWS & RRBS

power antenna
MANUFACTURING INC

Base Station Sector Panel Antenna

Model SVP600-90

Single bay broadband four dipole panel covering the 470-700 MHz spectrum. 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. Each panel is rated for 500 watts of input power, and multiple bays can be stacked horizontally or vertically to satisfy required gain or coverage.

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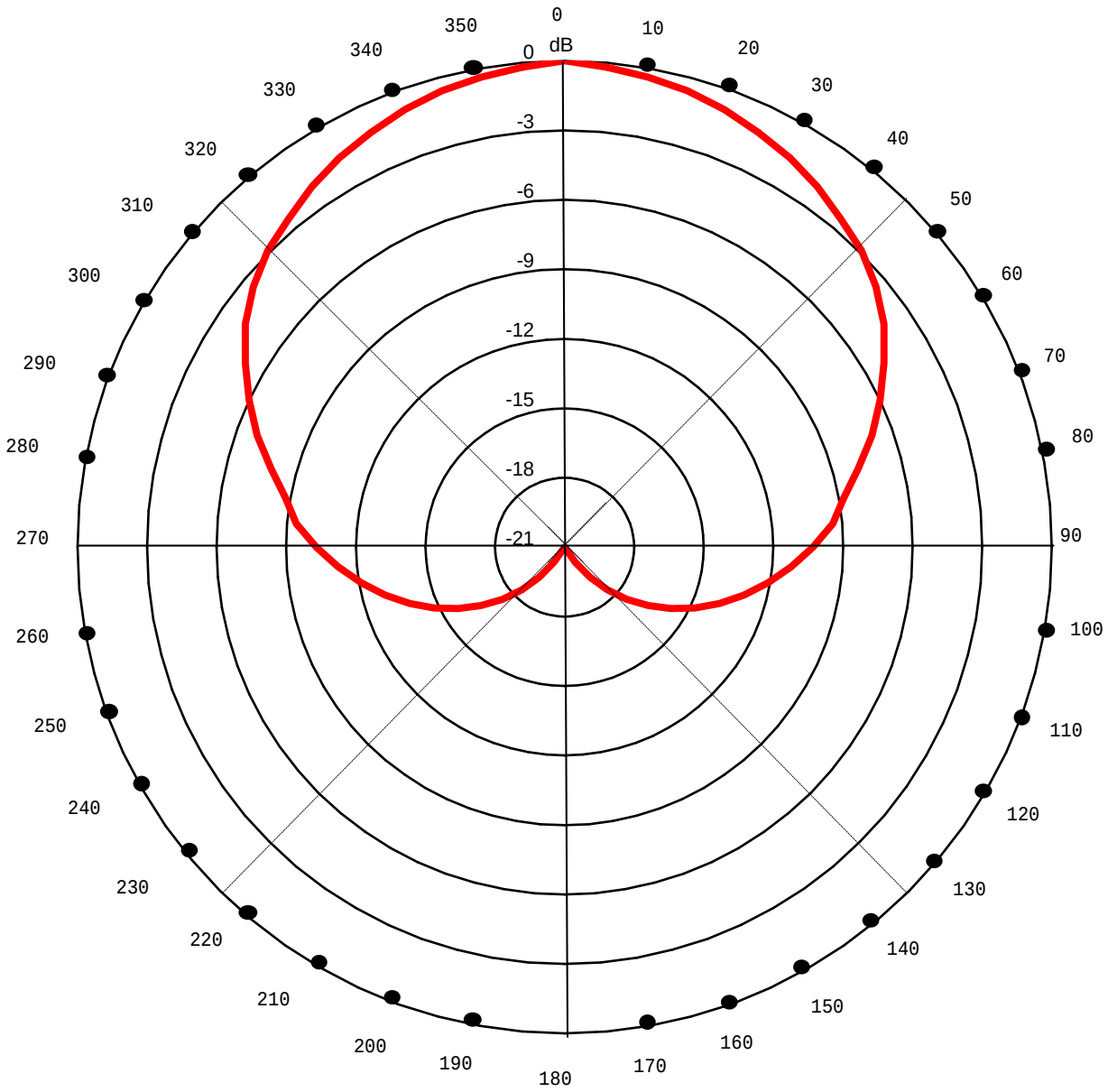
Electrical

Frequency:	470-700 MHz
Gain:	9.8 dBd (11.9 dBi) w/o electrical beam tilt
Beam width:	90 degrees at 600 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:	< -150 dBc (2 x 20w)
Input Connector:	N female
F/B Ratio:	22 dB
XPD:	24 dB typical
Beam tilt:	Any degree of mechanical available

Mechanical

Weight:	20 lbs (without mounting hardware)
Mounting:	Hot dipped galvanized steel, customized to tower spec or standard pipe OD
Radiating Elements:	Structural Aluminum 4 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:	500mm wide X 1000mm long X 200mm deep
Wind load:	815 N Frontal, 250 N Lateral @ 160 km/h
Vertical Height Req'd:	1.2 m / 4.0 feet

Horizontal Plane – *SVP600-90*



Vertical Plane – *SVP600-90*