

Poynting Antennas (Pty) Ltd

# Enhanced 5 GHz VP Variable Sector

5.3 - 6.0 GHz

Product code: SECT-A0016

This enhanced 16dBi (at 90deg sector) vertically polarised variable sector has been designed for the 5.3-6.0 GHz band. The variable sector exhibits improved return loss characteristics with VSWR of typically less than 2 across the band. 180, 120 and 90 degree sectors can be realised by adjusting the two external screws on the back of the antenna. A measuring tool is provided as a guideline for setting the beamwidth. It is designed for outdoor use.

## Features:

- Scissor tilt bracket
- Variable sector
- Pole mount or wall mount
- Easy to adjust.
- Rugged for outdoor environments.

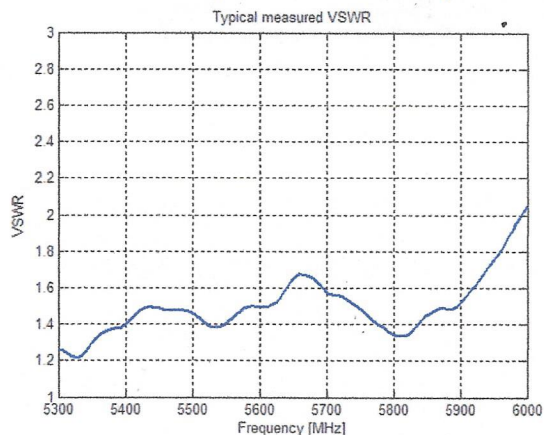
## Application:

- Point to multipoint communication
- Access Point / Base station antenna

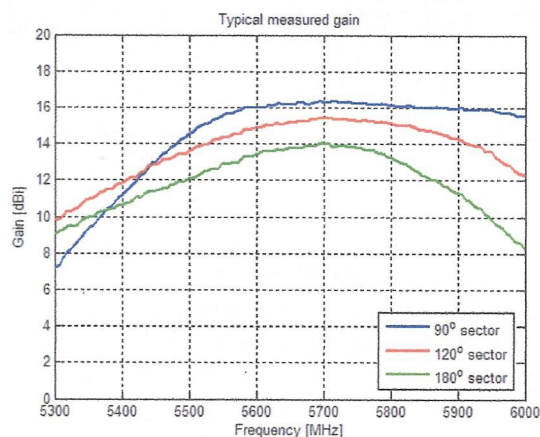


<b>Specifications:</b>			
<b>Product Code:</b>			
SECT-A0016: N-Type female connector			
<b>Electrical:</b>		<b>Environmental:</b>	
Gain 90°	16 dBi (±0.5 dBi)	Wind Loading	160 km/h
Gain 120°	15 dBi (±0.5 dB)	Temperature Range	- 20° C to +70° C
Gain 180°	13 dBi (±0.5 dB)	Shock	40G at 10 msec
Frequency	5300-6000 MHz	Thermal Shock	- 20° C to +70° C : 10 cycles
VSWR	< 2.2:1	Water Ingress Rating	IP65 (NEMA 4X)
Feed power handling	10 W		
E-plane 3 dB beam width	10° (± 0.5°)	<b>Mechanical:</b>	
H-plane 3 dB beam width	Continuously variable between 90° & 180°	Dimensions (l x Ø)	380 mm x 90 mm
Nominal input impedance	50 Ohm	Weight	1.5 kg
Polarisation	Vertical	Mounting	Pole or wall mountable
DC Short	Yes		

# Measured VSWR, Gain and Radiation patterns:

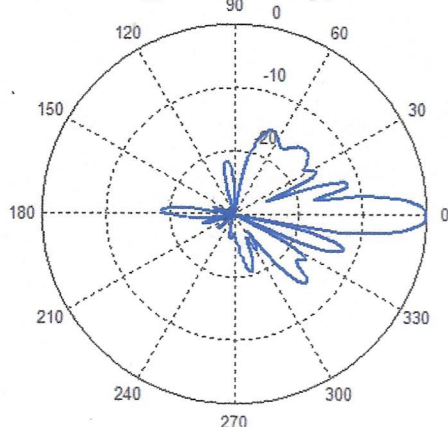


VSWR



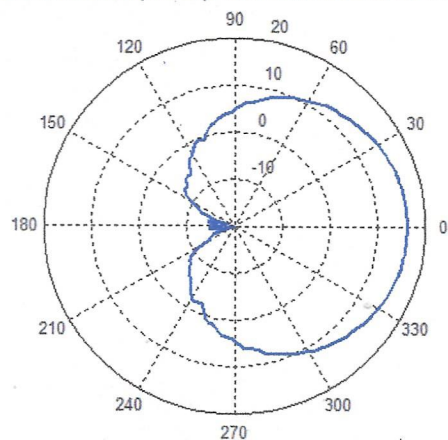
Gain

Measured Elevation (E-Plane) Pattern (normalised) at 5700 MHz  
(typical of sector settings)



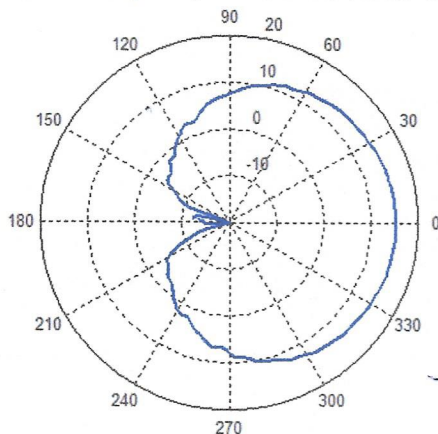
Typical measured E-Plane (Elevation) pattern  
(normalised)

Measured Azimuth (H-Plane) Pattern at 5700 MHz for 90° sector



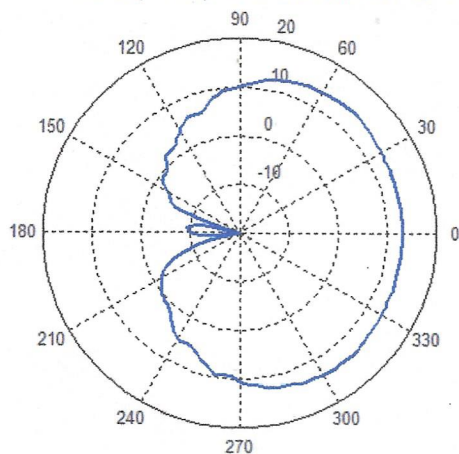
Measured Azimuth (H-Plane) pattern 90°

Measured Azimuth (H-Plane) Pattern at 5700 MHz for 120° sector



Measured H-Plane (Azimuth) pattern 120°

Measured Azimuth (H-Plane) Pattern at 5700 MHz for 180° sector



Measured H-Plane (Azimuth) pattern 180°