



# 17dBi 5GHz Dual-Polarised 60° Sector

Operating Frequency: 5.2- 6GHz

Product code: A-SECT-0025



Poynting's 5GHz 17 dBi 60° dual-polarised sector antenna provides a simple solution to WISPs wanting to provide their clients with the highest bandwidth service possible. This product (A-SECT-0025) comes with the antenna integrated into a weather-proof plastic enclosure which has a RJ45 connector built in to provide easy access to the electronics.

Each A-SECT-0025 includes an enclosure with integrated antenna (with DC short) and 6 movable posts with self tapping screws and double sided tape to mount your electronics. A pole mount bracket with elevation tilt is also included as well as a cable gland to allow entry of data and power cabling. A lug is provided to ground internally mounted electronics to the mounting structure for extra protection against surges/static buildup.

## Features:

- Weatherproof enclosure for outdoor use.
- Integrated 17 dBi 5 GHz dual-polarised antenna with DC short
- Insignificant RF cable losses
- External grounding lug
- Waterproof RJ45 gland
- Surge-protected

## Application areas:

- 5 GHz WISP applications
- Long range point-to-point links



## Specifications:

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Right Angle SMA(f) connectors

### Electrical:

Gain (max) \*17.5 dBi (+0.5 dB)  
Gain (min over the band) \*16.5 dBi (+0.5 dB)  
Frequency 5200 – 6000 MHz  
VSWR < 2.0:1 Over 95% of the band.  
Feed power handling 10 W  
E-plane 3 dB beamwidth 60° (± 3°)  
H-plane 3 dB beamwidth 15° (± 3°)  
Front to back (F/B ratio) >20 dB (± 3 dB)  
Nominal input impedance 50 Ohm  
Polarisation Dual Linear

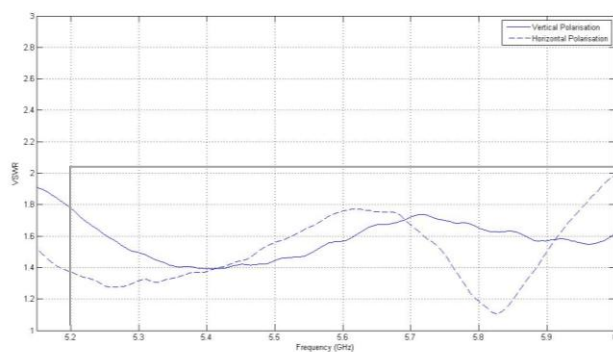
### Environmental:

Wind Loading 160 km/h  
Temperature Range - 20° C to +70° C  
Shock 40G at 10 msec  
Thermal Shock - 20° C to +70° C : 10 cycles  
Water Ingress Rating IP65 (NEMA 4X)

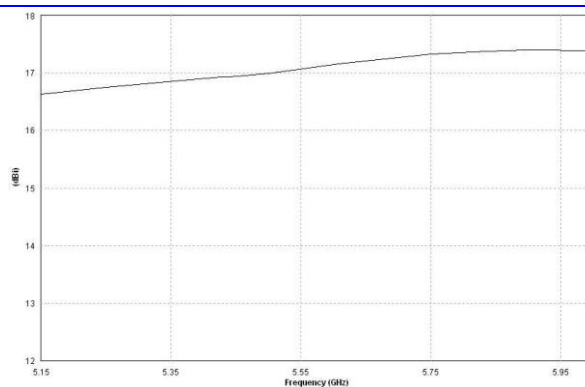
### Mechanical:

Dimensions (l x w x d) 364 mm x 258 mm x 98 mm  
Weight 2.44 kg  
Mounting Stainless steel brackets for up to 50 mm poles

## VSWR and Gain Pattern:

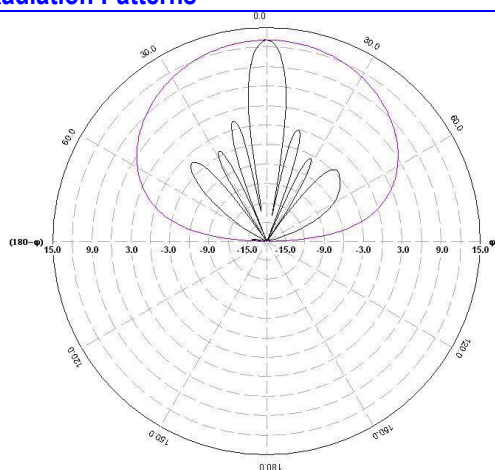


VSWR

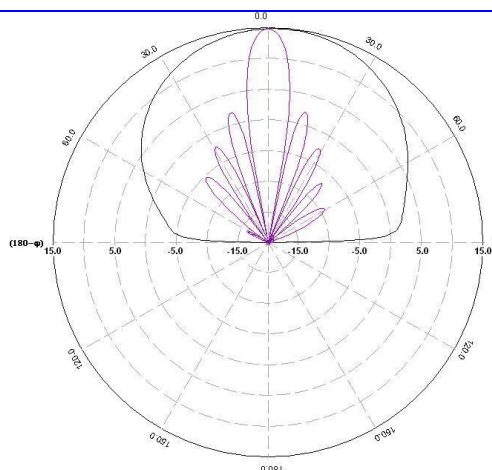


Gain

## Radiation Patterns



Vertical Polarisation



Horizontal Polarisation