

# 2.4-2.8 GHz 26dBi Dish Antenna

Operating Frequency - 2.4 - 2.8 GHz

Product code: K-GRID-003-05



This 90x70cm parabolic reflector dish antenna yields a gain from 26-27 dBi, which is about 3dBi higher than equivalent products. The aluminium grid construction is considerably lighter and easier to install than competing products and features a split-grid design, for compact packaging and easy transportation. The feed design also optimizes aperture efficiencies which gives significantly higher gain when compared to similar dish antennas.

The antenna has been designed for outdoor use and is easy to install. A mast/pole mounting bracket is provided that allows for continuous elevation tilt and azimuth alignment.

## Features:

- Wide band performance
- Ultra-high gain
- Quick and easy installation
- UV resistant powder coat finish
- Rugged outdoor construction with low wind resistance

## Application areas:

- Ultra-secure, long range wireless LAN (WiFi) point-to-point communication
- Long range client antenna (CPE) for WiFi networks
- Client antenna in a wireless network or in other similar proprietary standards operating in the 2.4-2.8 GHz band.

**Specifications:**

**Product Code:**

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Kit: GRID-003, FEED-005 and BRKT-009  
150mm pigtail with N(f) connector

**Electrical:**

<b>Frequency</b>	<b>2.4 – 2.5 GHz</b>
Gain (max)	27 dBi (+-0.5 dB)
Gain (min over the band)	26 dBi (+-0.5 dB)
VSWR	< 2.0:1
Feed power handling	10 W
E-plane 3 dB beamwidth	11° (± 2°)
H-plane 3 dB beamwidth	8° (± 2°)
Front to back (F/B ratio)	>30dB (± 2 dB)
Nominal input impedance	50 Ohm
Polarisation	Linear (vertical or horiz.)

**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)
Salt spray in acc with	No 72 Din 50021

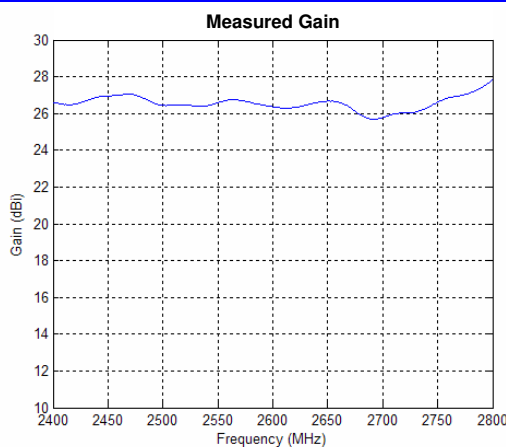
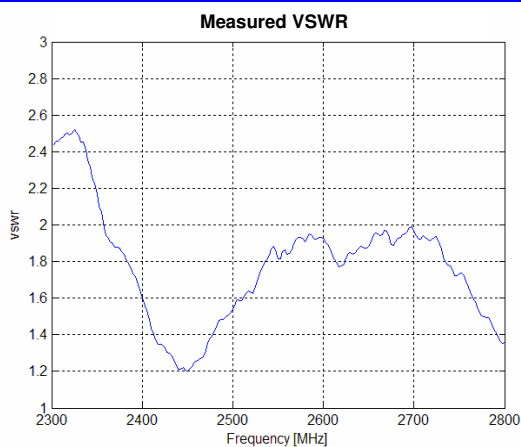
**Electrical:**

<b>Frequency</b>	<b>2.5 – 2.8 GHz</b>
Gain (max)	27 dBi (+-0.5 dB)
Gain (min over the band)	26 dBi (+-0.5 dB)
VSWR	< 2.5:1
Feed power handling	10 W
E-plane 3 dB beamwidth	11° (± 2°)
H-plane 3 dB beamwidth	8° (± 2°)
Front to back (F/B ratio)	>30dB (± 2 dB)
Nominal input impedance	50 Ohm
Polarisation	Linear (vertical or horizontal)

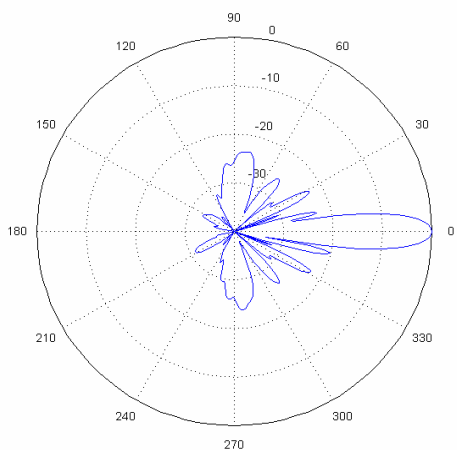
**Mechanical:**

Actual reflector dimension	900mm x 700mm
Dish focal length	300mm
Weight	3.3kg
Mounting	High strength tilt bracket for elevation and azimuth adjust
Dish material	Powder-coated cast aluminium

**Measurements:**



**Measured Azimuth (H-Plane) Pattern at 2.45GHz**



**Measured Elevation (E-Plane) Pattern at 2.45GHz**

