

5-6 GHz Grid Dish Antenna

Operating Frequency - 5 - 6 GHz Product code: K-GRID-003-06

The 90 cm x 70 cm grid reflector yields a 5 GHz grid with a gain of an impressive 30 dBi. This antenna is unique in its excellent performance at the high frequencies since the grid density was from the start



optimised for use in this band. Many earlier competitors used 2.4 GHz reflectors which "leaks" considerable energy when used in the 5 GHz band. The design is such that the grid is moulded in two halves (splitdesign) which results in a 65% reduction in packaging volume. The feed design also optimises aperture efficiencies which gives significantly higher gain when compared to similar grid antennas.

Features:

- UV Resistant powder coat finish
- Rugged outdoor construction
- Quick and easy installation
- Light weight and low wind resistance
- Azimuth and elevation continuous adjustment

Application:

- Ultra-secure wireless LAN point-to-point communication
- Can be used as client antennas in a wireless network or in similar proprietary standards operating in the 5–6 GHz frequency band.
- Long range CPE installation
- Long range Point-to-Point Links



Specifications:

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Electrical:

Gain (max) Frequency VSWR* (5.0-6.0 GHz) Polarisation Feed power handling E-plane 3 dB beamwidth H-plane 3 dB beamwidth Front to back (F/B ratio) Nominal input impedance 30 dBi (+-0.5 dB) 5 - 6 GHz < 2.0:1 Linear (Vert or Horiz) 10 W 6° (± 1°) 5° (± 1°) > 30 dB 50 Ohm

Grid antenna with 150mm N(f) pigtail

Environmental:

Wind Loading Temperature Range Shock Thermal Shock Salt spray (test method) Water Ingress Rating

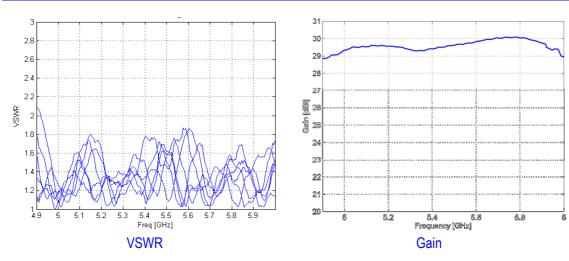
160 km/h - 20° C to +70° C 40G at 10 msec - 20° C to +70° C : 10 cycles No. 72 Din 50021 IP65 (NEMA 4X)

Mechanical:

Actual reflector Dimension Dish focal length Weight Dish Material Bracket 90 cm x 70 cm 30 cm 3.3 kg Die cast aluminium High strength with elevation and azimuth tilt

* In dish

VSWR and Gain Pattern:



Radiation Patterns

