



2.4 - 2.5 GHz Grid Antenna Kit

Operating Frequency - 2.4 - 2.8 GHz

Product code: K-GRID-003-05



The 90 cm x 70 cm grid reflector yields a 2.4 GHz grid with gain of 26 - 27 dBi which is about 3 dB higher than equivalent products. The new parabolic 90 x 70 cm aluminium grid antennas are considerably lighter than our previous grid dishes. The design is such that the grid is moulded in two halves (split-design) 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 2.4 – 2.8 GHz frequency band.
- Long range CPE installation
- Long range Point-to-Point Links



Specifications:

Product Code:

K-GRID-003-05

Grid Dish with feed and 150 mm RG 58 with N (f) connector

Electrical:

Gain (max) 27 dBi (+-0.5 dB)
 Gain (min over the band) 26 dBi (+-0.5 dB)
 Frequency 2400 - 2800 MHz
 VSWR < 2.0:1
 Feed power handling 10 W
 E-plane 3 dB beamwidth 11° (± 5°)

H-plane 3 dB beamwidth 8° (± 5°)
 Front to back (F/B ratio) >30 dB (± 2 dB)
 Nominal input impedance 50 Ohm
 Polarisation Linear

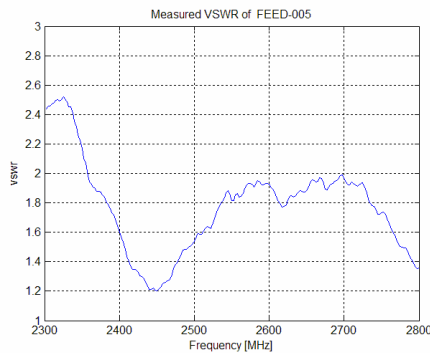
Environmental:

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)
 Salt spray in accordance with test method No 72 Din 50021

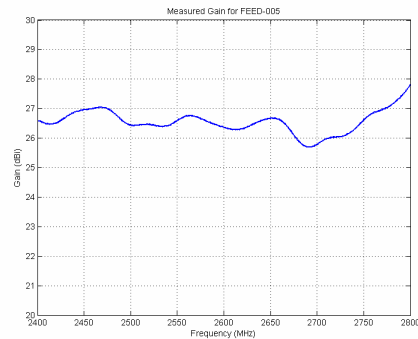
Mechanical:

Actual reflector Dimension 90 cm x 70 cm
 Dish focal length 30 cm
 Weight 3.3 kg
 Dish Material Die cast Aluminium
 Bracket High strength with elevation And Azimuth tilt

VSWR and Gain Pattern:

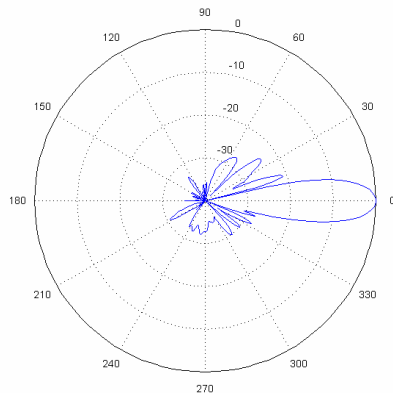


VSWR

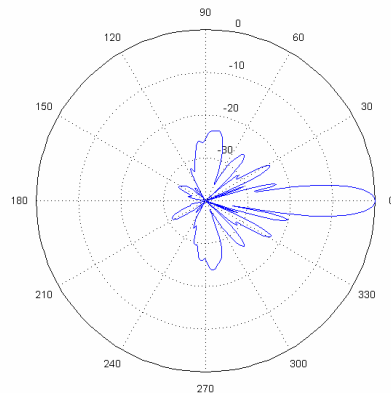


Gain

Radiation Patterns



E-Plane



H-Plane