



2.3-2.9 GHz Dish Antenna

Operating Frequency - 2.3 - 2.9 GHz

Product code: K-GD-03-08



This 90x70cm parabolic reflector dish antenna yields a gain from 23.5-25 dBi. 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:

- Ultra-wide band performance
- High gain
- Quick and easy installation
- UV resistant powder coated finish
- Rugged anodized mounting bracket
- Rugged outdoor construction with low wind resistance

Application areas:

- Long range WiFi/Wimax or equivalent point-to-point communication
- Long range client antenna (CPE) for WiFi/Wimax networks
- Client antenna in a wireless network or in other similar proprietary standards operating in the 2.3-2.9 GHz band.



Specifications:

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Units sold in 5-pack. 150mm pigtail with N(f) connector

Electrical specifications:

| | |
|----------------------------|---|
| Frequency | 2.3 – 2.9 GHz |
| Gain (max) | 24dBi (2300-2500 MHz) 24.5dBi (2500-2700 MHz) 25dBi (2700-2900 MHz) |
| Gain (min) | 23.5dBi (2300-2500 MHz) 23.5dBi (2500-2700 MHz) 24dBi (2700-2900 MHz) |
| VSWR | < 1.7:1 |
| E-plane 3 dB beamwidth | 10° (± 1°) |
| H-plane 3 dB beamwidth | 8° (± 1°) |
| Front to back (F/B ratio) | >32dB (± 2 dB) |
| Nominal input impedance | 50 Ohm |
| Polarisation | Linear (vertical or horiz.) |
| Surge/lightning protection | DC short across RF connector |

Environmental specifications:

| | |
|---------------------------|-------------------------------|
| Wind (operation/survival) | 160/160 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 | IP67 (excl. connector) |
| Humidity | 95% condensation, (IEC 60068) |
| Salt spray | ETSI 300 019-2-4 |
| Flammability | UL 94 Class HB |

Mechanical specifications:

| | |
|-----------------------------|---|
| Reflector material | Powder-coated cast aluminium |
| Deployed dimensions | 905x705x352mm |
| Deployed weight | 3.5 kg |
| Package dimensions (5-pack) | 710x490x260mm |
| Package weight (5-pack) | 18.5 kg |
| Mounting | High strength mast mounting bracket allowing elevation and azimuth adjustment |

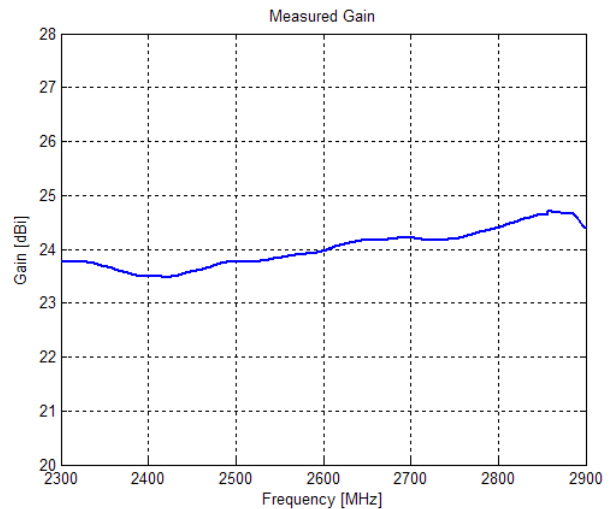
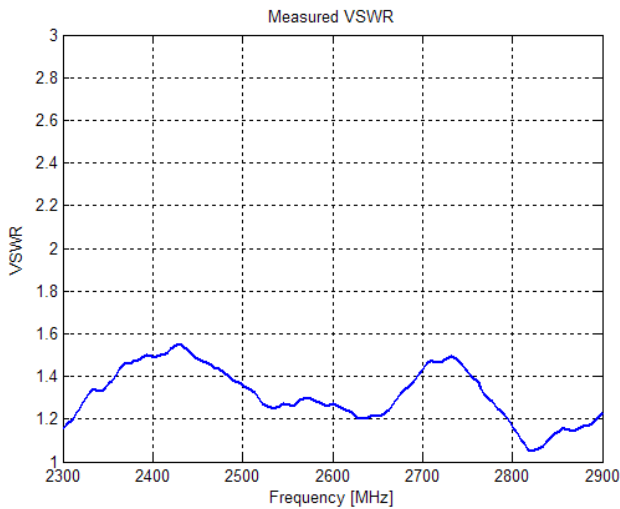
Electrical compliance:

| | |
|--------------------|--------------------------------|
| Sidelobes level | ETSI EN 302 326-03 v1.1.2. DN4 |
| Cross polarisation | ETSI EN 302 326-03 v1.1.2. DN4 |

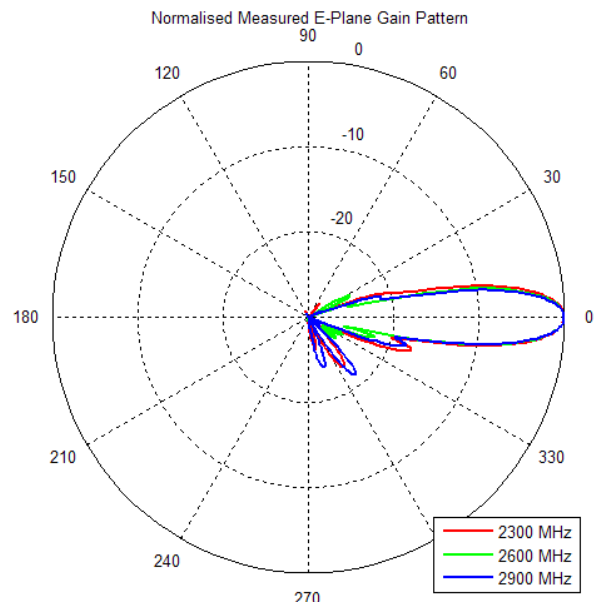
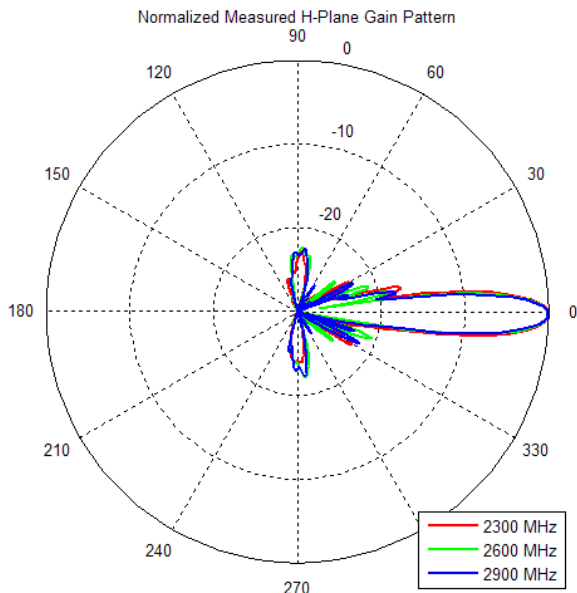
Materials compliance:

RoHS compliant

VSWR and Gain

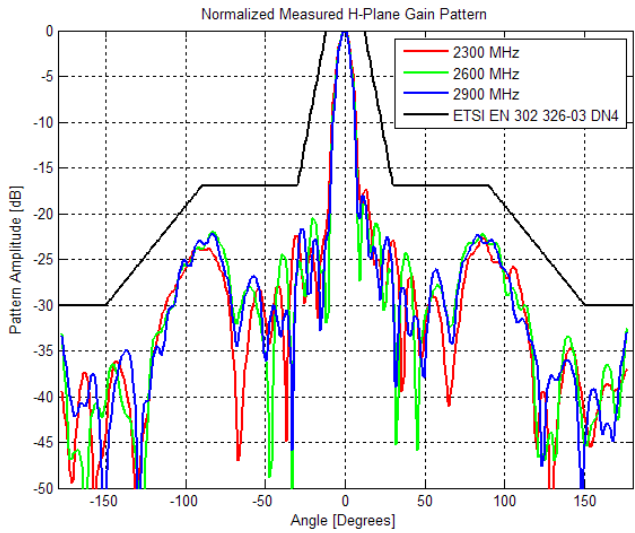
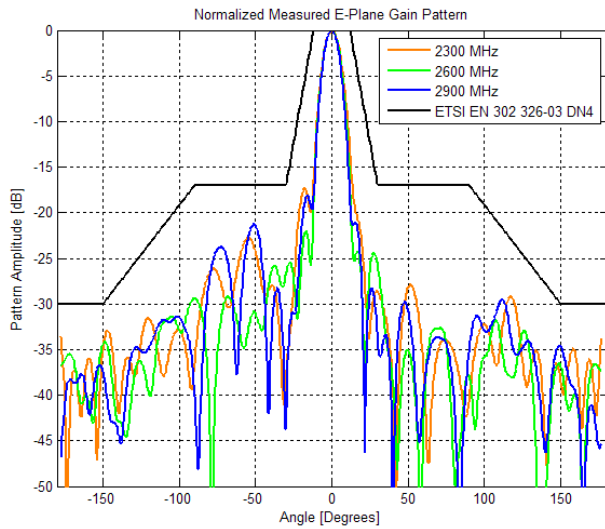


Co-polar radiation patterns (polar coordinates)

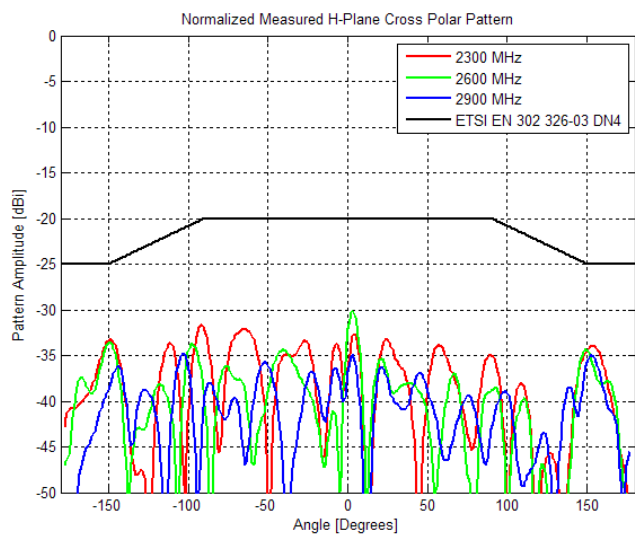
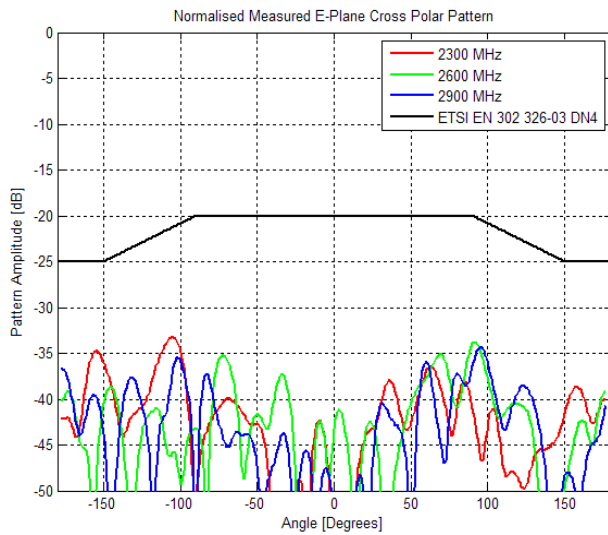




Co-polar radiation patterns (Cartesian coordinates)



Cross-polar radiation patterns (Cartesian coordinates)



Mechanical Drawings

