

2.3-2.9 GHz Dish Antenna

Operating Frequency - 2.3 - 2.9 GHz

Product code: K-GD-003-08



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:

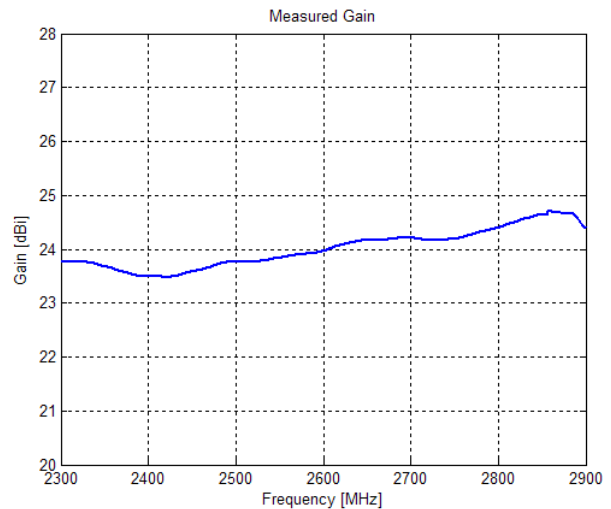
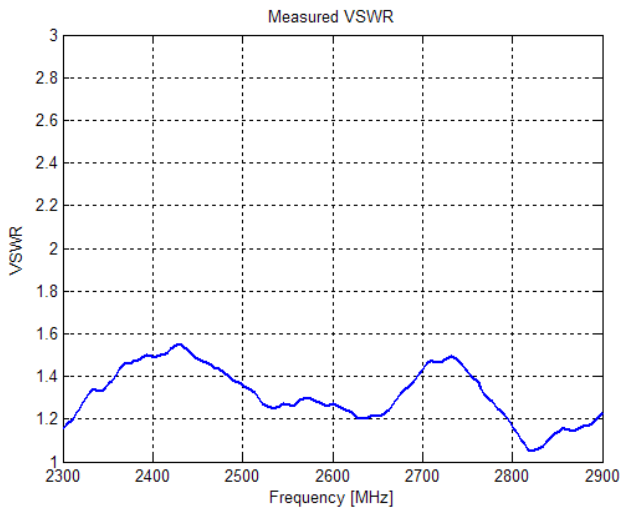
Reflector material	Powder-coated cast aluminium
Deployed dimensions	905x705x352mm
Deployed weight	3.5 kg
Package dimensions (5-pack)	710x490x260mm
Package weight (5-pack)	18.5 kg
Mounting	High strength mast mounting bracket allowing elevation and azimuth adjustment

Electrical compliance:

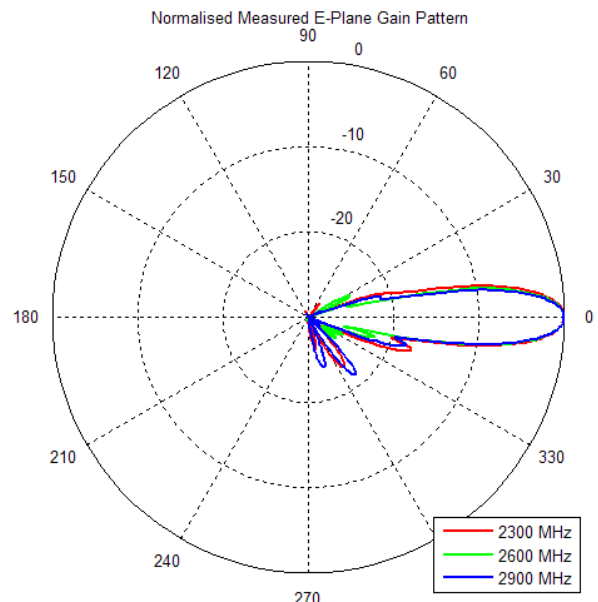
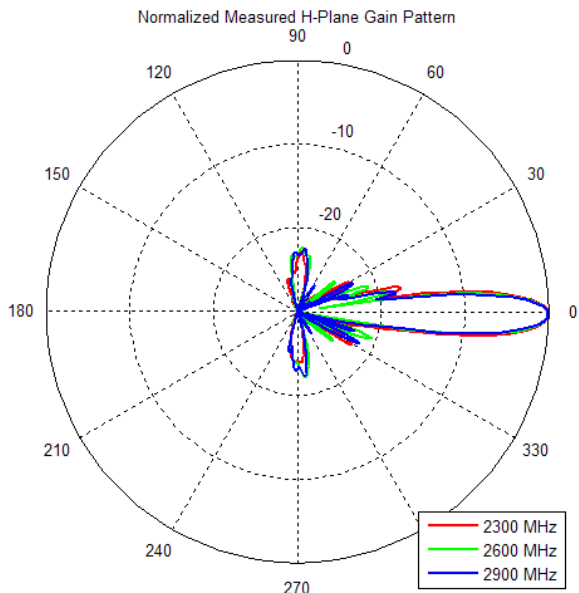
Sidelobes level	ETSI EN 302 326-03 v1.1.2. DN4
Cross polarisation	ETSI EN 302 326-03 v1.1.2. DN4

Materials compliance: RoHS compliant

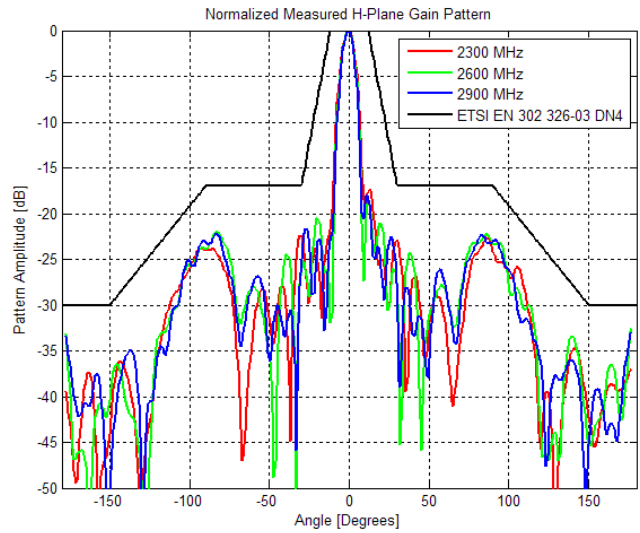
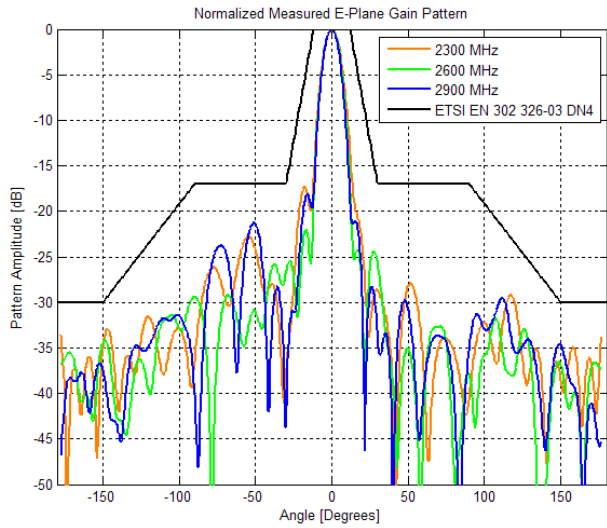
VSWR and Gain



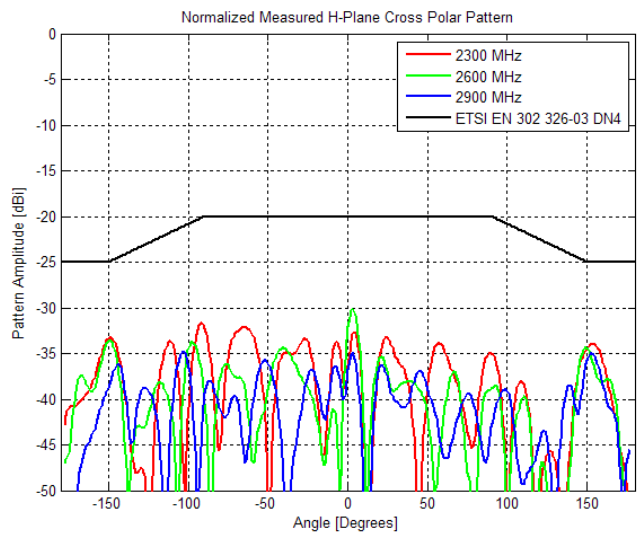
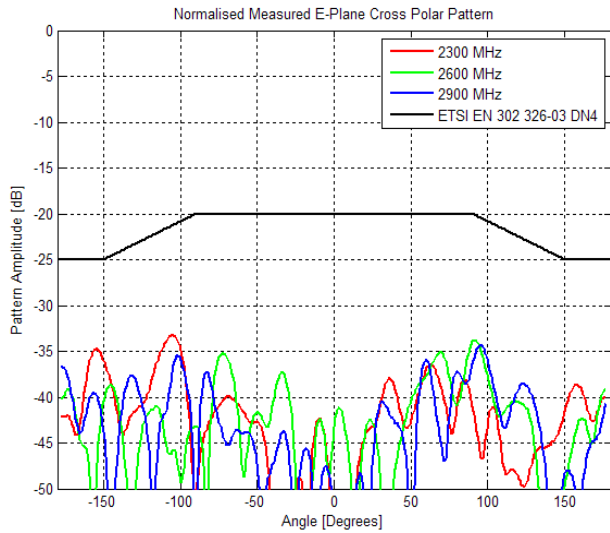
Co-polar radiation patterns (polar coordinates)



Co-polar radiation patterns (Cartesian coordinates)



Cross-polar radiation patterns (Cartesian coordinates)



Mechanical Drawings

