

High Gain Wideband Dish

1350 – 2700 MHz

Product Code: GRID-A0006

VERSION: 1.5



SPECIFICATIONS:

Electrical:	
Frequency	1350 – 2700 MHz
Gain	23 ± 2 dBi
VSWR	< 2:1
Nominal input impedance	50 Ω
Connector	N-type female
Polarisation	Linear, V or H mounting
Side lobes 0° to 90°	< -18 dB
Side lobes 90° to 180°	< -20 dB
Front / back ratio	< -24 dB
Cross-polarisation	< -20 dB
Beamwidth	E 15° / 8° H 10° / 5°
1350 / 2700 MHz	
Power rating	50 W
Mechanical:	
Dimensions installed	1200 mm x 900 mm x 650 mm
Dimensions, packed	1250 mm x 420 mm x 300 mm
Weight installed	15 kg
Weight packed	17 kg including bag
Break into parts	Dish and feed
Mast size	40 mm – 90 mm
Adjustment	Elevation
Colour	Olive green, others available
Environmental: designed to meet the following specifications	
Wind survival	180 km/h
Effective wind area	0.21 m ²
Temperature (operational)	-40 °C to +90 °C
Relative humidity (operational)	95% RH
Salt fog	
Vibration	
Shock	
Lightning and ESD protection	DC short circuit on feed
Exposed materials	Powder-coated aluminium, Stainless steel fasteners.

PRODUCT OVERVIEW:

The GRID-A0006 dish antenna operates over the 1350 to 2700 MHz frequency range, with high gain and narrow beamwidth. Mounting in either polarisation is possible. The bracket attaches to a range of mast sizes and allows a range of elevation adjustment.

Fully protected for harsh environments, the wire construction of the antenna gives it much lower wind resistance than a solid dish, and reduced visual signature, but without compromising on front/back ratio or gain.

This dish antenna requires no complex setup. The antenna folds for compact storage and quick deployment. The feed clips easily onto the dish.

PRODUCT FEATURES:

- High gain, wideband dish
- Wire construction for low wind load and low visual profile

High Gain Wideband Dish

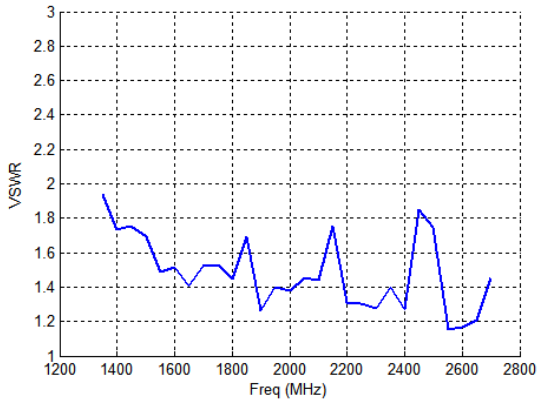
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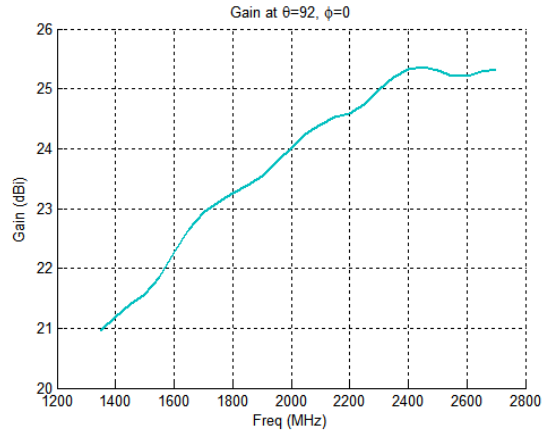
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ELECTRICAL PERFORMANCE CURVES:

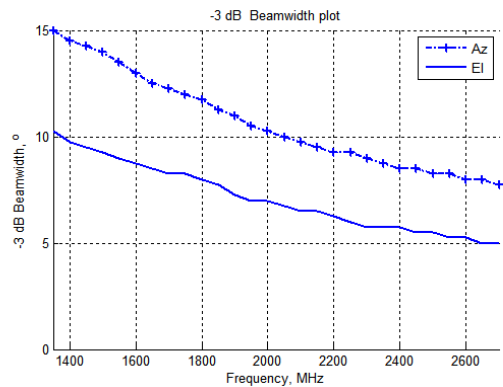
VSWR:



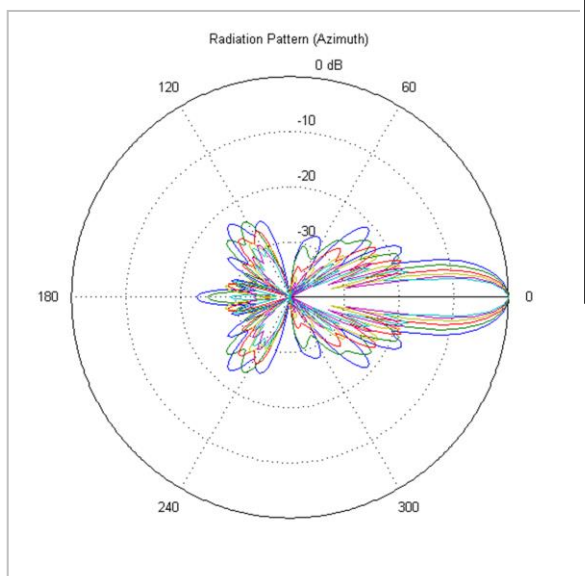
GAIN GRAPH:



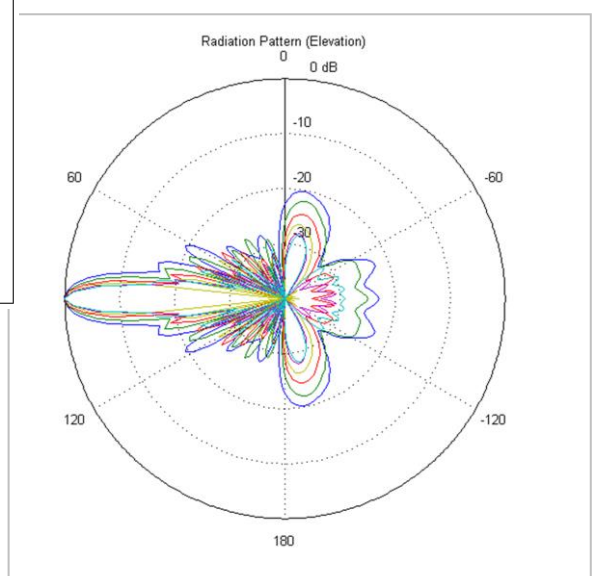
BEAMWIDTH:



RADIATION PATTERNS E and H-plane:



- L1: f=1350, $\theta=90$
- L2: f=1600, $\theta=90$
- L3: f=1900, $\theta=90$
- L4: f=2200, $\theta=90$
- L5: f=2450, $\theta=90$
- L6: f=2700, $\theta=90$



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GAIN THE ADVANTAGE

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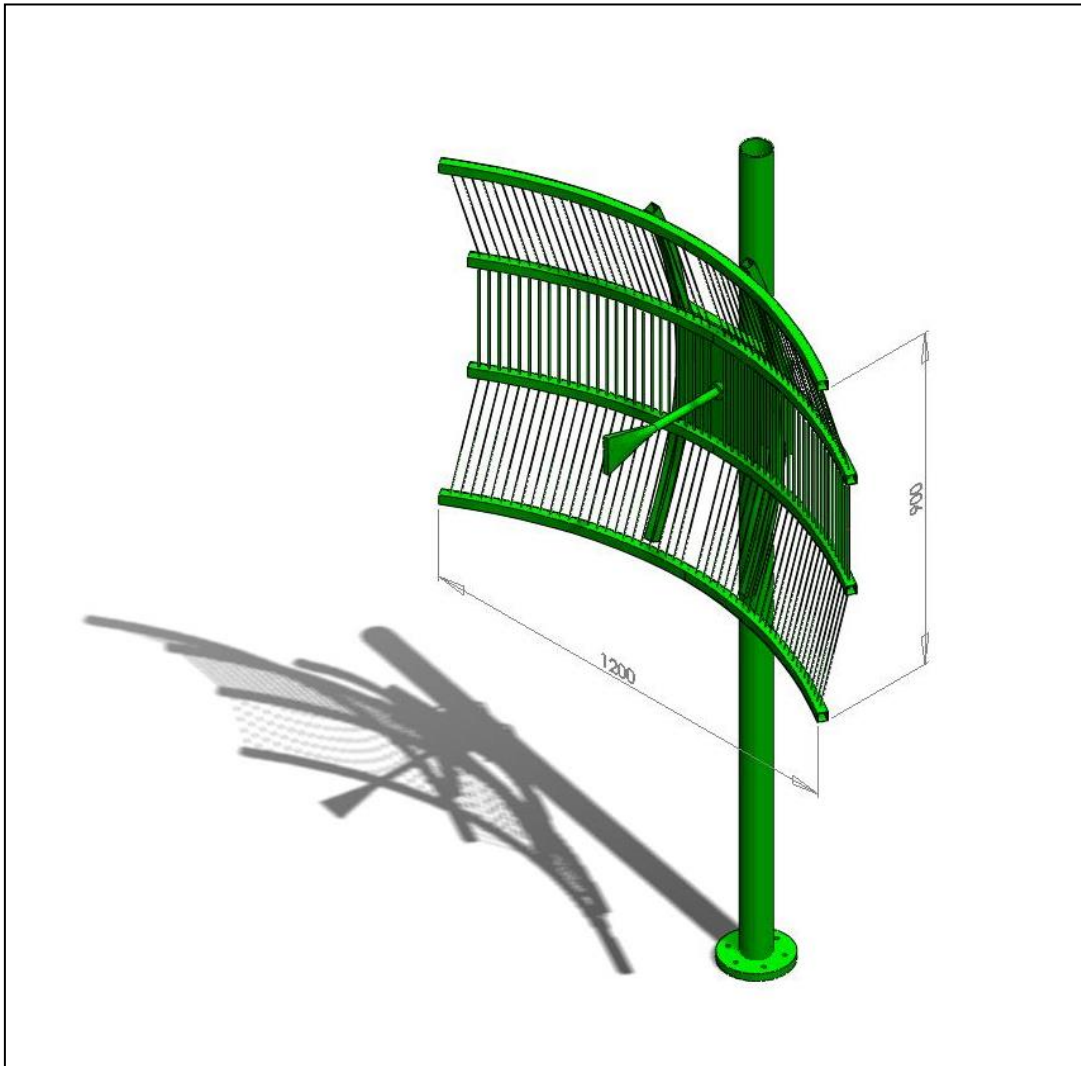
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PRODUCT DRAWINGS:

Antenna is mounted here for horizontal polarisation.



FOLDING THE ANTENNA:

Antenna spreader arms are rotated 90 degrees, and wire elements collapsed for compact storage.

