

UHF TV GRIDKIT Antennas GKA Series

Product Description

RFS Parabolic GRIDKIT antennas are designed to be assembled into grid parabolic antennas of comparable performance to welded grid antennas. These Gridkit antennas have an important advantage - they can be transported broken down into a smaller package, thus greatly reducing transportation costs and handling and storage problems. Assembly can be carried out with a few basic tools and easily achieved at remote sites. Kits contain universal mounting clamps including the panning clamp, but tower mounting tubes are not included. The mounting method allows either horizontal or vertical polarization.



Features/Benefits

- Extremely rugged mechanical design to withstand high windspeeds (up to 350km/h)
- Standard broadband versions for 335 to 2700MHz bands
- Horizontal or vertical polarization.
- Easy adjustment of azimuth and elevation
- Broadband unpressurized feeds, with no trade off in gain slope characteristics
- Corrosion resistant aluminium tube reflector, hot dip galvanized mounting, stainless steel hardware

Technical Specifications

Product Line	Antenna TV
Product Type	Band IV/V (UHF) TV Gridkit Antenna
Frequency Range, MHz	526 - 820
Polarization	Horizontal, Vertical
Nominal Gain (Mid-band), dBd	Upper limit 27.4; Mid band 25.4; Lower limit 23.5
Bandwidth, MHz	100
Half Power Beamwidth E-Plane, degrees	99
Half Power Beamwidth H-Plane, degrees	81
Return Loss, dB	> 17.7
Input Connector	N socket (suffix "N"); 7/8" EIA flange (suffix "E")
Power Rating, kW	0.5
Front to Back Ratio, dB	25
Side Lobe (max), dB	15
Impedance, ohms	50
Weight, kg (lb)	130 (287)
Dimensions (Height or Length), cm (in)	380 (150) Diameter
Mounting (Standard), mm (in)	Clamp size 76 - 115mm (3 - 6) OD tube. Fine adjustment azimuth +/- 5 deg, elevation +/- 5 deg
Effective Area Front (full antenna), sq m (sq ft)	4.5 (48.4)
Effective Area Side (full antenna), sq m (sq ft)	2.3 (24.7)
Wind Survival Rating, km/h (mph)	270 (168)
Wind Load @ 50 m/sec Front, kN (lb)	8.3 (1866) @ 55 m/sec
Wind Load @ 50 m/sec Side, kN (lb)	4.6 (1034) @ 55 m/sec
Shipping Weight, Kg (lb)	318 (701)
Shipping Volume, cu m (cu ft)	1.88 (66.3)
Shipping Dimension - Length, cm (in)	404 (159.1)
Shipping Dimension - Width, cm (in)	101 (39.8)
Shipping Dimension - Height, cm (in)	46 (18.1)

Notes

Note 1 All Gridkit antennas are packed in heavy wood cases.

Note 2 Wind loading calculated in accordance with AS1170:Part 2, "SAA Loading Code - Wind Forces".

Note 3 Calculated in accordance with AS1664 and AS1250 (minimum safety factor of 1.5 on yield strength).

Note 4 Add suffix to model number "N" for N type, "E" for 7/8 EIA flange.

Other Documentation



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All information contained in the present datasheet is subject to confirmation at time of ordering