

China Starwin 6.0M Rx Only Antenna Datasheet



6.0m Rx Only Manual Antenna Photo for Reference

General Description

China Starwin 6.0m Rx Only antenna is made of high accuracy stretch-formed aluminum panel with stable structure. Rx Only antenna systems with satisfactory performance of high gain, low side lobe and reliable operation, easy to operate and maintenance.

Options

- High Accuracy Stretch-formed Aluminum Panel
- Meet data receive and TV receive requirement
- C-band, Ku-band, ka-band, S-band, L-band frequency as option
- Linear or Circular Polarized feed system as option
- Single/Dual Polarization as option
- Manual/Motorized as option
- High Erosion Resistance
- Assembled and tested feed system before leaving factory

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Technical Specifications

6.0meter C-band Rx Only Antenna Technical Specifications

Electrical Specifications	C Band Rx	Ku Band Rx
Operating Frequency, GHz	3.7- 4.2 GHz	10.95-12.75 GHz
Gain, Mid-Band, dBi	$\geq 46.0 + 20\lg(f/3.95)$	$\geq 56.09 + 20\lg(f/12.5)$
VSWR	$\leq 1.30:1$	$\leq 1.30:1$
Beam Width, -3dB	$\leq 0.82^\circ$	$\leq 0.27^\circ$
Noise Temperature, K, 20° EI	≤ 41	≤ 55
Feed Interface	CPR-229G	WR-75
Polarization	Linear/Circular	Linear
Cross-Pol Isolation, Axial	≥ 25	≥ 27
Axial Ratio	≤ 3.0	N/A
First Side lobe	$\leq -14\text{dB}$	
Side lobe Envelop	$52 - 10\lg(D/\lambda) - 25\lg e \quad (100\lambda/e)^\circ \leq e \leq 20^\circ$	$32 - 25\lg e \quad 1^\circ \leq e \leq 20^\circ$

Environmental Specification

Wind Loading Operational	20.8m/s
Wind Loading	35m/s
Wind Loading Survival	55m/s
Temperature Operational	$-20^\circ\text{C} \sim +55^\circ\text{C}$
Humidity	5%-95%

Mechanical Specification

Antenna Type	Prime Focus
King Post Type	Truss Type
Drive Mode	Auto
Azimuth Range	$\pm 85^\circ$
Elevation Range	$5-90^\circ$
Polarization Range	$\pm 90^\circ$

Technology

After panel pressing molding, first remove oil, and spraying zinc, Yellow primer, and White coating.
Advanced abrasive blasting and zinc treatment for steel structure, and spraying zinc, Yellow primer, and White coating.