

0.4m Ku-Band Carbon Fiber Flyaway Antenna



Features:

- 1 carbon fiber panel
- High gain and excellent sidelobe performance
- 5 minutes setup
- Easy & fast elevation adjustment
- Nylon backpack case for tripod type

0.4m Ku-Band Carbon Fiber Flyaway Antenna Specifications

◆ R.F SPECIFICATIONS	Ku-band	
	RECEIVE	TRANSMIT
1. Frequency (GHz)		
2. Typical Gain (dBi)	$\geq 31.3+20\log(F/12.5)\text{dBi}$	$\geq 32.5+20\log(F/14.25)\text{dBi}$
3. VSWR	$\leq 1.3:1$	$\leq 1.3:1$
4. Beamwidth (-3dB)	3.6	3.15
5. Antenna Noise Temperature (K)		
10° Elevation		
20° Elevation		
40° Elevation	32K	
6. Typical G/T at 20°EL	17.3dB/K (12.5GHz, 70K LNA)	
7. Power Handling Capability		$\geq 500\text{W}$
8. Feed Interface	WR75	WR75
9. Feed Insertion Loss	0.3dB	0.3dB
10. Rx to Tx Isolation	$\geq 85\text{dB}$ (including filter)	
11. Cross Pol Isolation		
On Axis	$\geq 30\text{dB}$	
12. Sidelobes	CCIR.580-6	
First Sidelobe Performance	$\leq -14\text{dB}$	
◆ MECHANICAL SPECIFICATION		◆ ENVIRONMENTAL SPECIFICATION
1. Antenna Type	Offset	1. Wind loading, Operational (With Ballast) $\leq 34\text{mph}(54\text{km/h})$
2. Drive Type	Manual	2. Temperature, Operational -40°C to 60°C
3. AZ Travel	$\pm 90^{\circ}$	3. Temperature, Storage -55°C to 70°C
4. EL Travel	10° to 90°	4. Rain 100mm/h
5. POL Travel	$\pm 90^{\circ}$	5. Relative Humidity 0 to 100%
6. Reflector Material	Carbon fiber	6. Solar Radiation
7. Reflector Segments	1	7. Ice 25mm on all surface or 13mm on all surface with 130km/h wind gusts
8. Mount Type	Tripod	
9. Surface Accuracy	0.3mm (R.M.S)	$\leq 540\text{mm}\times 400\text{mm}\times 110\text{mm}$
10. Antenna Weight (N.W.)	$\leq 3.5\text{kg}$	12. Stowed Size (Excluding LNB, power amplifier, power supply and other folowed equipment)
11. Feed Holder Bearing	$\leq 1.0\text{kg}$	