

0.6m Ku/Ka-Band Carbon Fiber Flyaway Antenna



Features:

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

0.6m Ku/Ka-Band Carbon Fiber Flyaway Antenna Specifications

◆ R.F SPECIFICATIONS	Ku-band		Ka-band	
	RECEIVE	TRANSMIT	RECEIVE	TRANSMIT
1. Frequency (GHz)	12.25-12.75	14-14.5	19.6-21.2	29.4-31
2. Typical Gain (dBi)	≥35.5+20log(F/12.5)dBi	≥36.5+20log(F/14.25)dBi	≥39.8+20log(F/20.4)dBi	≥43.2+20log(F/30.2)dBi
3. VSWR	≤1.3:1	≤1.3:1	≤1.3:1	≤1.3:1
4. Beamwidth (-3dB)	2.4°	2.1°	1.47°	0.99°
5. Antenna Noise Temperature (K)				
10° Elevation	46K			
20° Elevation	39K			
40° Elevation	35K			
6. Typical G/T at 20°EL	18.2dB/K (12.5GHz, 70K LNA)		17.5dB/K (20.4GHz, 170K LNA)	
7. Power Handling Capability		≥500W		≥500W
8. Feed Interface	WR75	WR75	WR42	WR28
9. Feed Insertion Loss	0.25dB	0.25dB	0.4dB	0.7dB
10. Rx to Tx Isolation	≥85dB			
11. Axial Ratio (dB)			≤1.5dB	
12. Cross Pol Isolation				
On Axis				
13. Sidelobes	CCIR.580-6		CCIR.580-6	
First Sidelobe Performance	≤ - 14dB		≤ - 14dB	
◆ MECHANICAL SPECIFICATION		◆ ENVIRONMENTAL SPECIFICATION		
1. Antenna Type	Offest	1. Wind Loading,Operational		≅34mph(54km/h)
2. Drive Type	Manual	2. Ambient Temperature		-40°C to 60°C
3. AZ Travel	0 to 360°	3. Rain		100mm/h
4. EL Travel	10° to 90°	4. Relative Humidity		0 to 100%
5. POL Travel	±90°	5. Solar Radiation		360 BTU/h/ft² (1000Kcal/h/m²)
6. Reflector Material	Carbon fiber	6. Ice		25mm on all surface or 13mm on all surface with 130km/h wind gusts
7. Reflector Segments	4			
8. Mount Type	Tripod			
9. Surface Accuracy	0.3mm(R.M.S)			