



Specification for 2.4m flyaway antenna(Carbon fiber)

Diameter	2.4m		
Material of main reflector	Carbon fiber		
Operating frequency	Tx	13.75~14.5GHz	5.85~6.425GHz
	Rx	10.95~12.75GHz	3.625~4.2GHz
Gain	Tx	49.0 +20lg(f/14.25)dBi	41.2+20lg(f/6.13)dBi
	Rx	47.2 dBi+20lg(f/12.5)dBi	37.3+20lg(f/3.9)dBi
Feed interface	WR75		CPR-229G

Polariation mode	Linear
Cross Pol. Isolation	$\geq 32\text{dB}$
VSWR	$\geq 1.25:1$
Port to port isolation(Tx-Rx)	$\geq 85\text{dB}$
Sidelobe characteristics	First sidelobe level $\leq -14\text{dB}$
Travelling range	EI $\pm 220^\circ$
	AZ $10^\circ \sim 90^\circ$
	Pol. 100°
Operational wind	11m/s under free operating status
	20m/s mooring system steady status
Operational temperature	$-45^\circ \sim 60^\circ$
Storage temperature	$-55^\circ \sim 70^\circ$
Humidity	$\leq 95\%$ (30%)

