

SA-9.0T

9M Ring Focus Antenna, PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	C-RECEIVE	C-TRANSMIT
Frequency(GHz)	3.625~4.200	5.850~6.425
Typical Gain (dBi)	49.9	53.1
VSWR	1.25 : 1	1.25 : 1
Beamwidth(-3dB)	0.55°	0.40°
Beamwidth(-15dB)	1.20°	0.80°
G/T at 5° Elevation,4GHz with 30°K LNA	30.8 db/°k	
Antenna Noise Temperature	4 Port Feed	
10° Elevation	40K	
20° Elevation	34K	
30° Elevation	30K	
Power Handling Capability		5000W / port
Feed interface	CPR-229G	CPR-159G/137G
Feed insertion loss	0.20dB	0.20dB
Port-port isolation		
Tx-Rx	85dB	
Tx- Tx, Rx -Rx Linear	30dB	30dB
Cross Polarization isolation	35dB(on axis)	35dB(on axis)
Sidelobes	29-25LOG(θ) dBi($1^\circ \leq \theta \leq 20^\circ$)	
	-3.5 dBi($20^\circ < \theta \leq 26.3^\circ$)	
	32-25LOG(θ) dBi($26.3^\circ < \theta \leq 48^\circ$)	
	-10(Average) dBi($\theta > 48^\circ$)	

MECHANICAL SPECIFICATIONS

SPECIFICATIONS	PARAMETERS
Azimuth Travel	$\pm 90^\circ$
Elevation Travel	$0^\circ \sim 90^\circ$
Azimuth/Elevation Axis Drive Rates	0.02°/s~0.04°/s
Polarization Travel Rate	1°/s
Accuracy Servo System	1/8~1/10 Beamwidth(-3dB)
Installation Hardware	
Shipping Weight	11 tn.
Surface Accuracy	C-0.5mm
Finish	White paint

ENVIRONMENTAL SPECIFICATIONS

SPECIFICATIONS	PARAMETERS
Operational Winds	45mi/h gusts to 60mi/h
Survival Winds(Any Position)	125mi/h
Ambient Temperature	-30°C ~60°C
Relative Humidity	0% ~ 100%
Seism (Survival)	0.3 G's horizontal
	0.15 G's vertical
Solar Radiation	360 BTU/h/ft ²
Ice thick	3cm
Atmospheric Conditions	Salt、Pollutants



SA-11.3T

11.3M MODIFIED CASSEGRAIN ANTENNA PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	C-RECEIVE	C-TRANSMIT
Frequency(GHz)	3.625~4.200	5.850~6.425
Typical Gain (dBi)	51.9	55.5
VSWR	1.25 : 1	1.25 : 1
Beamwidth(-3dB)	0.43°	0.28°
Beamwidth(-15dB)	0.86°	0.56°
G/T at 5° Elevation,4GHz with 30°K LNA	30.8db/°k	
Antenna Noise Temperature	4 Port Feed	
10° Elevation	40K	
20° Elevation	34K	
30° Elevation	30K	
Power Handing Capability		5000W / port
Feed interface	CPR-229G	CPR-159G/137G
Feed insertion loss	0.20dB	0.20dB
Port-port isolation		
Tx-Rx	85dB	
Tx- Tx, Rx -Rx Linear	30dB	30dB
Cross Polarization isolation	35dB(on axis)	35dB(on axis)
Sidelobes	29-25LOG(θ) dBi($1^\circ \leq \theta \leq 20^\circ$)	
	-3.5 dBi($20^\circ < \theta \leq 26.3^\circ$)	
	32-25LOG(θ) dBi($26.3^\circ < \theta \leq 48^\circ$)	
	-10(Average) dBi($\theta > 48^\circ$)	

MECHANICAL SPECIFICATIONS

SPECIFICATIONS	PARAMETERS
Azimuth Travel	$\pm 90^\circ$
Elevation Travel	$0^\circ \sim 90^\circ$
Azimuth/Elevation Axis Drive Rates	$0.02^\circ/\text{s} \sim 0.04^\circ/\text{s}$
Polarization Travel Rate	$1^\circ/\text{s}$
Accuracy Servo System	$1/8 \sim 1/10$ Beamwidth(-3dB)
Installation Hardware	
Shipping Weight	16 tn.
Surface Accuracy	C-0.5mm
Finish	White paint

ENVIRONMENTAL SPECIFICATIONS

SPECIFICATIONS	PARAMETERS
Operational Winds	45mi/h gusts to 60mi/h
Survival Winds(Any Position)	125mi/h
Ambient Temperture	-30°C ~ 60°C
Relative Humidity	0% ~ 100%
Aeismic (Survival)	0.3 G's horizontal
	0.15 G's veritcal
Solar Radiation	360 BTU/h/ft ²
Ice thick	3cm
Atmospheric Conditions	Salt、 Pollutants

