

## 9.0 Meter Earth Station Antenna

Probecom 9.0 Meter ringfocus antenna can deliver superior performance for C-band and Ku-band transmit/receive satcommunication applications such as Broadcasters, Service Providers, GSM operator, Satellite operator, Military and Government Agencies, FreeLands or Rescue Organizations.

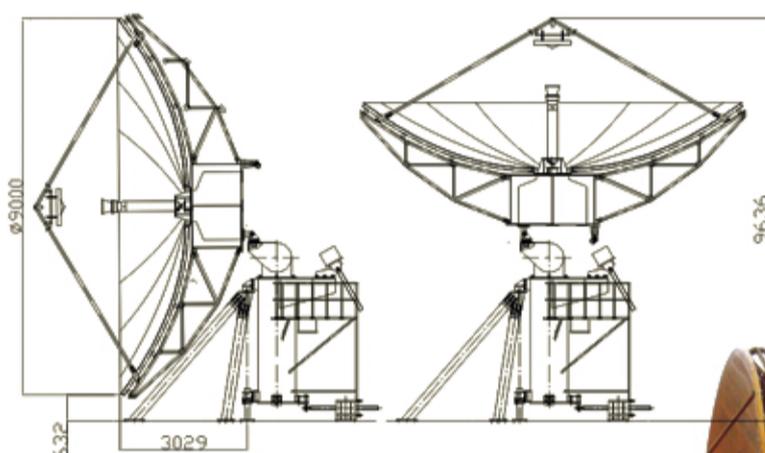
Probecom 9.0 Meter ringfocus antenna adopts all aluminum re-inforced reflectors, consisting of precisely formed panels with matched radials and hub assemblies, ensure the ease of installation. The standard designed azimuth over elevation pedestal provides a cost-effective solution for high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing accuracy for C-Band Tx/Rx and Ku-Band Tx/Rx operations.

### Highlighted Features

- Meets CCIR 580 and INTELSAT Requirements
- CP/LP switchable feed
- High RF performance
- Stainless hardware
- Different frequency ranges from many feed configurations
- Ka band antenna with rotary pedestal is available
- Antenna reflector be pre-assembly in works, special designed taper-pin easy instllation and ensure on site assembly accuracy,no theodolite required

### Options

- L,S,X bands and multi-bands
- 800MHz bandwidth is available
- Full motion antenna
- Feed blower or deicing with automatic controls
- Two or four Tx/Rx port in linear or circular polarized feeds



### Antenna Accessory

- Motorization Kits
- Limit Switches
- ODU Support Kits
- Factory Feed System Testing and Documentation
- Ocean Transport Packing
- Foundation Kit
- Lightening Rod Kit
- Grounding Kit Cable-Mounting Kit
- Anti-icing and Deicing



### Electrical Specification

Type	C90T		K90T	
	C-Band		Ku-Band	
Operating Frequency, GHz	Receive	Transmit	Receive	Transmit
	3.4~4.2	5.85~6.65	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	49.41	53.40	58.96	60.27
Polarization	Linear/Circular		Linear	
XPD(on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio (Circular-Polarized)	2-Port Feed	1.30	1.09	
	4-Port Feed	1.06	1.06	
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature	2/4Port Feed		2/4Port Feed	
	10° Elevation	35°K/42°K	60°K/66°K	
	30° Elevation	26°K/36°K	50°K/56°K	
	50° Elevation	24°K/33°K	40°K/50°K	
-3 dB Beam Width, Mid-band	0.55°	0.35°	0.19°	0.16°
Typical G/T (EL>10°)	30.5dB/K		37.3dB/K	
	(30° LNA)		(70° LNA)	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229F	CPR-137G	WR-75	WR-75
Feed Insertion Loss,dB	0.2/0.25	0.2/0.25	0.25/0.35	0.25/0.4
Isolation, Tx to Rx, dB	85		85	
Rx/Rx,Tx/Tx Linear,dB	30		30	
Rx/Rx,Tx/Tx Circular,dB	20		20	
Sidelobe	CCIR 580-4			

### Mechanical Specification

Antenna Diameter	9m	
Antenna Type	Ring Focus	
Surface Accuracy (RMS)	≤0.4mm	
Antenna Pointing Range	Azimuth	±85°
	Elevation	5°~90°(Continuous)
	Polarization	±90°(Continuous)
Drive Mode	Manual or Motorized	
Motor Drive System	Azimuth Travel Rate	0.02°/S-0.04°/S
	Elevation Travel Rate	1°/S

### Environmental Specification

Operational Wind	79km/h gusting to 126km/h
Survival Wind	198km/h
Temperature	-40°~+60°
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m <sup>2</sup>
Seismic(Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival