

## **6.2 METER EARTH STATION ANTENNA**

Shaanxi Probecom Microwave Technology Co.,Ltd. is a specialized company engaged in the design and manufacture of satellite communication earth station antenna with a selected range from 1.8M to 16M (C-Band, KU-Band, Ka-Band, X-band, S-band, L-band )and relevant servo equipment including antenna control system and beacon receiver. Microwave antenna, TVRO antenna and Flyaway antenna, Microwave components and customerized products is also provided.



Probecom 6.2 Meter ring focus antenna providing Tx/Rx 2-port feed or Tx/Rx 4-port in switchable linear & circular polarization for C-band, 6.2m Ku band antenna only for linear polarization, It can deliver exceptionally high performance for transmit/receive applications with auto—tracking control system.

Probecom 6.2 M antenna adopts all aluminum re-enforced 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.

It is widely and ideally used for Broadcasters, Service Providers, GSM operator, Satellite operator, Military and Government Agencies, FreeLands or Rescue Organizations

## **Highlighted Features**

- \*Meets CCIR 580 and INTELSAT Requirements
- \*CP/LP switchable feed
- \*High RF performance
- \*Galvanized stainless steel 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 /AirTransport Packing
Foundation Kit
Lightening Rod Kit
Grounding Kit Cable-Mounting Kit
Anti-icing and Deicing



Electrical Speci	fication					
Туре			C62T		K62T	
Operating Frequency, GHz			C-Band		Ku-Band	
			Receive	Transmit	Receive	Transmit
			3.625~4.2	5.85~6.425	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi			46.43	50.0	55.72	57.04
Polarization			Linear/Circular		Linear	
XPD(on Axis), dB			35	35	35	35
XPD across 1dB Beam Width, dB		33	33	33	33	
Axial Ratio	2-Po	rt Feed	1.30	1.09		
(Circular-Polarized)	4-Po	rt Feed	1.06	1.06		
VSWR	<b>L</b>		1.25	1.25	1.25	1.25
Antenna Noise Temperature 2-port feed						
10° Elevation			35K		50K	
30° Elevation			25K		39K	
50° Elevation			22K		36K	
-3 dB Beam Width, Mid-band			0.78°	0.52°	0.27°	0.23°
Typical G/T (EL>10°, 2-port)			28.4dB/K		35.2dB/K	
		(30° LNA)		(70° LNA)		
Tx. Power Capability, KW				5		2
Feed Interface			CPR-229F	CPR—137F	WR-75	WR-75
Feed Insertion Loss, dB			0.2	0.2	0.25	0.25
Isolation, Tx to Rx, dB			85		85	
Rx/Rx,Tx/Tx Linear,dB			30		30	
Rx/Rx,Tx/Tx Circular,dB			20		20	
Side lobes			CCIR 580-4			
<b>Mechanical Specificat</b>	ion			<del>,</del>		
Antenna Diameter				6.2m		
Antenna Type				Ring Focus		
Surface Accuracy(RMS)				≤0.35mm		
Antenna Pointing Range Azimu				±85°		
Elevati			0°~90°(Continuous)			
Polariz			ation	±90°(Continuous)		
Drive Mode				Manual or Motorized		
	zimuth Trav			0.1°/S(0.02°/S)		
System Elevation Travel Rate				0.1°/S(0.02°/S)		
Polarization				1°/S		
Environmental Specification				731mm/h musting to 071mm/h		
Operational Wind Survival Wind				72km/h gusting to 97km/h		
Temperature				216km/h -40°~+60°		
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Relative Humidity			100%			
Solar Radiation Ice Loading			1135Kcal/h/m² 13mm Operational; 30mm Survival			
			25 Sperational, 36 Survival			