

3.7 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 3.7Meter ringfocus antenna providing Tx/Rx 2-port feed or Tx/Rx 4-port in switchable linear & circular polarization for C-band, 3.7m Ku band antenna only for linear polarization, can deliver exceptionally high performance for transmit/receive applications.

Probecom 3.7 M antenna RF specification can adhere to FCC Regulation25.209,IESS and ITU-RS.580-5,INMARSAT, ASIASAT,INTELSAT, APT and CHINASAT,etc.

Probecom 3.7M antenna reflector incorporates stretch-formed doubly contoured panels with matched radials and hub for ease of field alignment. 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 required for Ku-band operation.

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
- * 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
- *Feed blower or deicing with automatic controls
- *Two or four Tx/Rx port in linear polarized feeds

Antenna Accessory

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



Electrical Specificati	on					
Туре		C37T		K37T		
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		41.94	45.52	51.24	52.55	
Polarization		Linear/Circular		Linear		
XPD(on Axis), dB		35	35	35	35	
XPD across 1dB Beam Width, dB		33	33	33	33	
Axial Ratio	al Ratio 2-Port Feed		1.30	1.09		
(Circular-Polarized)	4-Port F	eed	1.06	1.06		
VSWR		1.25	1.25	1.25	1.25	
Antenna Noise Temperature						
2-port feed		35K		49K		
10° Elevation		35K 29K		49K 39K		
30° Elevation		25K 25K		35K		
50° Elevation						
-3 dB Beam Width, Mid-band		1.31°	0.87°	0.43°	0.38°	
Typical G/T (EL>10°)		24dB/K		30.6dB/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	
First Side lobe			-14		-14	
90% Peaks under Following Envelop		29-25logθ(1°≤θ < 20°)		29-25logθ(1°≤θ < 20°)		
Mechanical Specification						
•	ına Diame	eter		3.7m		
Antenna Type				Ring Focus		
Surface Accuracy(RMS)				≤0.35mm		
Antenna Pointing Range		-:				
		zimuth			±85°	
		levation larization	,)	
Po		arization ±90 (Continuous)				
Drive Mode				Manual or Motorized		
Motor Drive	Azimuth Travel Rate			0.30°/S(0.06°/S)		
System	Elevation Travel Rate			0.20°/S(0.04°/S)		
Environmental Spec			Г			
Operational Wind				72km/h gusting to 97km/h		
Survival Wind				200km/h		
Temperature				-40°~+60°		
Relative Humidity				100%		
Solar Radiation				1135Kcal/h/m²		
Seismic(Survival)				0.3g(H), 0.15g(V)		