

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



Typo			C27T		K27T	
Туре		C Pand		K37T		
Operating Frequency, GHz		C-Band		Ku-Band Receive Transmit		
		Receive 3.4~4.2	Transmit 5.85~6.725	10.95~12.75	13.75~14.5	
Coin Mid hand dP:			41.94	45.52	51.24	
Gain, Mid-band, dBi						52.55
Polarization		Linear/Circular		Linear		
XPD corose 1dB Room Width, dB			35	35	35	35
XPD across 1dB Beam Width, dB		33	33	33	33	
Axial Ratio	2-Port Feed		1.30	1.09		
(Circular-Polarized)	Polarized) 4-Port Feed		1.06	1.06	4.05	4.05
VSWR		1.25	1.25	1.25	1.25	
Antenna Noise Temp	erature 2-	port				
feed			35K		49K	
10° Elevation			29K		39K	
30° Elevation			25K		35K	
50° Elevation			4.248	0.079	0.429	0.20%
-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)	5	(70° LNA)	2	
Tx. Power Capability, KW			CDD 220E		WD 75	
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 Specifi	ication					
Antenna Diameter				3.7m		
Antenna Type				Ring Focus		
Surface Accuracy(RMS)				≤0.35mm		
Antenna Pointing Range Azimu		ıth	±85°			
Polari				±90°(Continuou	•	
				, ,		
Drive Mode				Manual or Motorized		
Motor Drive				, , , ,		
System Elevation Trave			l Rate	0.20°/S(0.04°/S)		
Environmental Spe	cification	1		T		
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)		

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