

3.0 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 3.0 Meter ring focus antenna can provide Tx/Rx 2-port feed in switchable linear & circular polarization for C-band, 3.0m Ku band can only be for linear polarization. Delivering exceptionally high performance for transmit/receive applications.

Probecom 3.0 M antenna RF specification can adhere to FCC Regulation25.209,IESS and ITU-RS.580-5,INMARSAT, ASIASAT,INTELSAT, APT and CHINASAT,etc.

Probecom 3.0 M 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.

Highlighted Features

*Meets CCIR 580 and INTELSAT Requirements *CP/LP switchable feed *High RF performance *Stainless hardware *Different frequency ranges from many feed configurations

Options

*L,S,X bands and multi-bands *800MHz bandwidth is available *Feed blower or deicing with automatic controls

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

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Electrical Specification Type				С30Т		К30	ЭТ
Operating Frequency, GHz			C-Band			Ku-Band	
					ansmit	Receive	Transmit
Operating rrequeriey, Griz		3.625~4.2		5~6.425	10.95~12.75	13.75~14.5	
Gain, Mid-band, dBi		40.12	4	13.70	49.42	50.73	
Polarization		Linear/Circular		Linear			
XPD(on Axis), dB		35		35	35	35	
XPD across 1dB Beam Width, dB		33	33 33		33	33	
Axial Ratio	2-Port F	eed	1.30		1.09		
(Circular-Polarized)	4-Port		1.06		1.06		
VSWR			1.25		1.25	1.25	1.25
Antenna Noise Temperature							
2-port fe							
10° Elevation			29K			48K	
30° Elevation			22K			39K	
50° Elevation			19K			35K	
-3 dB Beam Width, Mid-band			1.5°		1.1°	0.56°	0.48°
Typical G/T (EL>10°)			22.7dB/K			29dB/K	
		(30° LNA)			(70° LNA)		
Tx. Power Capability, KW		000 0005		5		2	
Feed Interface			CPR-229F	СР	R-137F	WR-75	WR-75
Feed Insertion Loss, dB		0.2	<u>ог</u>	0.2	0.25	0.2	
Isolation, Tx to Rx, dB First Side lobe			-14			-14	
90% Peaks under Following		-14		-14 29-25logθ(1°≤θ < 20°)			
50% Peaks under Following Envelop			29-25logθ(1°≤θ < 20°)				
Mechanical Specific							
Antenna Diameter						3m	
Antenna Type					Ring Focus		
Surface Accuracy (RMS)					≤0.35mm		
	Automa Deinting Dense		zimuth		0°~360°(Continuous)		
E		Elevation		0°~90°(Continuous)			
		larization	±90°(Continuous)				
Drive Mode				Manual or Motorized			
Environmental Spec							
Operational Wind				72km/h gusting to 97km/h			
Survival Wind				216km/h			
Temperature				-40°~+60°			
Relative Humidity				100%			
Solar Radiation				1135Kcal/h/m²			
Seismic(Survival)				0.3g(H), 0.15g(V)			
Ice Loading				13mm Operational; 25mm Survival			

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