



Probecom 4.5 Meter ringfocus antenna providing Tx/Rx 2-port feed or Tx/Rx 4-port in linear polarization for C&Ku band antenna, it can deliver exceptionally high performance for transmit/receive applications.

itation Antenna

Probecom 4.5 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.

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
- -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 instillation and ensure on site assembly accuracy, no theodolite required

## 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
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## Options -L.S.X ba

- -L,S,X bands and multi-bands -800MHz bandwith is avaliable
- Feed blower or deicing with automatic controls
- Two or four Tx/Rx port in linear polarized feeds

**Electrical Specification** 

Туре		C45T		K45T	
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		43.64	47.22	52.94	54.25
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-Port Feed	1.30	1.09		
(Circular-Polarized)	4-Port Feed	1.06	1.06		
VSWR		1.25	1.25	1.25	1.25
Antenna Noise Temperature 2-port feed	10° Elevation	34°K		52°K	
	30° Elevation	24°K		41°K	
	50° Elevation	21°K		37°K	
-3 dB Beam Width, Mid-band		1.08°	0.72°	0.37°	0.32°
Typical G/T (EL>10°)		25.9dB/K		32.3dB/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	0.2	0.25	0.25
Isolation, Tx to Rx, dB		85		85	
First Sidelobe		-14		-14	
90% Peaks under Following Envelop		29-25logθ (1°≤θ<20°)		29-25logθ (1°≤θ<20°)	
Mechanical Sp	ecification				
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Antenna Diameter		4.5m		
Antenna Type		Dual Reflector Modified Gregorian		
Surface Accuracy (RMS)		≤0.35mm		
Antenna Pointing Range	Azimuth	±85°		
	Elevation	0°~90°(Continuous)		
	Polarization	±90°(Continuous)		
Drive Mode		Manual or Motorized		
Materia Delice Contact	Azimuth Travel Rate	0.11°/S(0.06°/S)		
Motor Drive System	Elevation Travel Rate	0.17°/S(0.08°/S)		
<b>Environmental Spe</b>	cification			

## Operational Wind

72km/h gusting to 97km/h		
200km/h		
-40°~+60°		
100%		
1135Kcal/h/m²		
0.3g(H), 0.15g(V)		
13mm Operational; 25mm Survival		