

## 1.8 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 1.8Meter antenna** consists of two varieties, offset /ring focus antenna ,providing Tx/Rx 2-port feed in linear polarization, can offer superior Tx/Rx performance.

Probecom 1.8 M antenna RF specification can adhere to FCC Regulation25.209,IESS and ITU-RS.580-5,INMARSAT, ASIASAT,INTELSAT, APT and CHINASAT,etc.

**Probecom 1.8M 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
- High G/T, Excellent Pattern Characteristics
- Hot-spray zinc Steel Ground
- Offset Parabolic
- Mount Assembly
- 2-port Linear Polarization

### Antenna Accessory

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

**TECHNICAL SPECIFICATION**

<b>RF Specifications</b>	<b>Ku-Receive</b>	<b>Ku-Transmit</b>
Frequency(GHz)	12.25-12.75	14.0-14.5
Typical Gain(d B)	45.44	46.37
VSWR	1.25:1	1.25:1
Beam width: -3dB	0.878°	0.789°
Power Handling Capability		1KW/Port
Feed Insertion	WR-75	
Feed Insertion Loss(d B)	0.25dB	0.25dB
Tx-Rx Isolation	85dB	
Cross Polarization Isolation	Axis	≥35dB
	1dB Beam width	≥33dB
Side Lobes	CCIR.508-4	

<b>MECHANICAL SPECIFICATIONS</b>	
Azimuth Travel	0°~360°
Elevation travel	5°~85°
Surface Accuracy (R.M.S)	0.3mm
Operational Wind Speed	45mi/h (72Km/h) gusts to 60mi/h (97Km/h)
Survival Wind Speed	125mi/h (200Km/h)
Ambient Temperature	-30° ~ +60°
Relative Humidity	0%~100%

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