

6.2 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 6.2 Meter ring focus antenna providing Tx/Rx 2-port feed or Tx/Rx 4-port in switchable linear & circular polarization for C-band, 6.2m Ku band antenna only for linear polarization, It can deliver exceptionally high performance for transmit/receive applications with auto-tracking control system .

Probecom 6.2 M antenna adopts all aluminum re-enforced reflectors, consisting of precisely formed panels with matched radials and hub assemblies, ensure the ease of installation. 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 for C-Band Tx/Rx and Ku-Band Tx/Rx operations.

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*
- *Galvanized stainless steel 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 instllation and ensure on site assembly accuracy, no theodolite required*

Options

- *L,S,X bands and multi-bands*
- *800MHz bandwidth is available*
- *Full motion antenna*
- *Feed blower or deicing with automatic controls*
- *Two or four Tx/Rx port in linear or circular polarized feeds*

Antenna Accessory

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

| Electrical Specification | | | | | |
|-------------------------------------|--------------|---------------------------------|------------|-----------------------|------------|
| Type | | C62T | | K62T | |
| 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 | | 46.43 | 50.0 | 55.72 | 57.04 |
| Polarization | | Linear/Circular | | Linear | |
| XPD(on Axis), dB | | 35 | 35 | 35 | 35 |
| XPD across 1dB Beam Width, dB | | 33 | 33 | 33 | 33 |
| Axial Ratio (Circular-Polarized) | 2-Port Feed | 1.30 | 1.09 | | |
| | 4-Port Feed | 1.06 | 1.06 | | |
| VSWR | | 1.25 | 1.25 | 1.25 | 1.25 |
| Antenna Noise Temperature | | | | | |
| 2-port feed | | | | | |
| 10° Elevation | | 35K | | 50K | |
| 30° Elevation | | 25K | | 39K | |
| 50° Elevation | | 22K | | 36K | |
| -3 dB Beam Width, Mid-band | | 0.78° | 0.52° | 0.27° | 0.23° |
| Typical G/T (EL>10°, 2-port) | | 28.4dB/K (30° LNA) | | 35.2dB/K (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 | |
| Rx/Rx,Tx/Tx Linear,dB | | 30 | | 30 | |
| Rx/Rx,Tx/Tx Circular,dB | | 20 | | 20 | |
| Side lobes | | CCIR 580-4 | | | |
| Mechanical Specification | | | | | |
| Antenna Diameter | | 6.2m | | | |
| Antenna Type | | Ring Focus | | | |
| Surface Accuracy(RMS) | | ≤0.35mm | | | |
| Antenna Pointing Range | Azimuth | ±85° | | | |
| | Elevation | 0°~90°(Continuous) | | | |
| | Polarization | ±90°(Continuous) | | | |
| Drive Mode | | Manual or Motorized | | | |
| Motor Drive System | Azimuth | 0.1°/S(0.02°/S) | | | |
| | Elevation | 0.1°/S(0.02°/S) | | | |
| | Polarization | 1°/S | | | |
| Environmental Specification | | | | | |
| Operational Wind | | 72km/h gusting to 97km/h | | | |
| Survival Wind | | 216km/h | | | |
| Temperature | | -40°~+60° | | | |
| Relative Humidity | | 100% | | | |
| Solar Radiation | | 1135Kcal/h/m ² | | | |
| Ice Loading | | 13mm Operational; 30mm Survival | | | |

Probecom Microwave Technology Co.,Ltd

ADD:20th Floor,Building C,Jin Qiao International Plaza,50 # Keji Road,Hi-Tech Development Zone, Xi'An

Tel: 0086-29-83115011/3115022 / Fax:0086-29-83115033 E-Mail:sales@probecom.cn

Copyright©2008 Probecom