

# 11.3m C/Ku-Band Rx Only Antenna



## Features:

- Dual shape ring-focus design
- Aluminum major reflector & sub reflector with high precision
- High gain and excellent sidelobe performance
- Factory feed system and king post pedestal assembled to reduce installation time
- No field alignment requirement
- Well in anti-corrosion
- Excellent in stability

## 11.3m C/Ku-Band Rx Only Antenna Specifications

| ◆ R.F SPECIFICATIONS             | C-Band                                                        | Ku-Band                                                             |
|----------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|
|                                  | RECEIVE                                                       | RECEIVE                                                             |
| 1. Frequency (GHz)               | 3.625-4.2<br>3.4-4.2 ★<br>51.51 at 3.8GHz<br>1.25:1<br>0.437° | 12.25-12.75<br>10.95-12.75 ★<br>61.53 at 12.5GHz<br>1.3:1<br>0.138° |
| 5. Antenna Noise Temperature (K) | 1/2Port Feed                                                  | 1/2Port Feed                                                        |
| 10° Elevation                    | 31K                                                           | 37K                                                                 |
| 20° Elevation                    | 27K                                                           | 32K                                                                 |
| 40° Elevation                    | 23K                                                           | 29K                                                                 |
| 6. Typical G/T at 20°EL          | 33.95dB/K (3.8GHz, 30K LNA)                                   | 41.44dB/K (12.5GHz, 70K LNA)                                        |
| 7. Feed Interface                | CPR-229                                                       | WR-75                                                               |
| 8. Feed Insertion Loss           | 0.2dB                                                         | 0.25dB                                                              |
| 9. Tx to Rx Isolation            | ≥85dB                                                         | ≥85dB                                                               |
| 10. Axial Ratio (dB)             | 0.75dB                                                        | 1dB                                                                 |
| 11. Cross Pol Isolation          |                                                               |                                                                     |
| On Axis                          | ≥30dB                                                         | ≥30dB                                                               |
| 12. Sidelobes                    | CCIR.580-6                                                    | CCIR.580-6                                                          |
| ◆ MECHANICAL SPECIFICATION       |                                                               | ◆ ENVIRONMENTAL SPECIFICATION                                       |
| 1. Antenna Type                  | Dual-reflector                                                | 60mph(97km/h)                                                       |
| 2. Drive Type                    | Motorized                                                     | 65mph(105km/h)                                                      |
| 3. AZ Travel                     | ±90°(3 segments)                                              | 125mph(200km/h)                                                     |
| 4. EL Travel                     | 5° to 90°                                                     | -40°C to 60°C                                                       |
| 5. POL Travel                    | ±90°                                                          | 5. Rain<br>100mm/h                                                  |
| 6. Reflector Material            | Precision formed aluminum                                     | 6. Relative Humidity<br>0 to 100%                                   |
| 7. Reflector Segments            | 32                                                            | 7. Solar Radiation                                                  |
| 8. Mount Type                    | King post pedestal                                            | 8. Ice                                                              |
|                                  |                                                               | 9. Shock and Vibration                                              |
|                                  |                                                               | 0.3G's horizontal, 0.15G's vertical                                 |