



## SPECIFICATIONS

### 3.8M Receive Only Antenna System

#### ELECTRICAL SPECIFICATION

| Antenna                   | C-BAND  | Ku-BAND                        |
|---------------------------|---|--------------------------------|
| Frequency                 | 3.625-4.2GHz  | 10.95-12.75GHz                 |
| Midband Gain              | 42dB  | 50.9dB                         |
| VSWR                      | ≤1.25   | ≤1.25                          |
| -3dB Beamwidth            | 1.45°   | 0.5°                           |
| Noise Temperature         | 40°K  | 55°K                           |
| Polarization              | Linear<br>(circular as option)  | Linear<br>(circular as option) |
| Cross-pol. Discrimination | >25dB on axis<br>(Linear)   | >30dB on axis<br>(Linear)      |
| Feed Interface            | CPR229  | WR75                           |
| Sidelobe                  | First Sidelobe ≤-14dB<br>Envelop P <sub>90%</sub> ≤ 52 - 10lgθ(D/Δ) - 25lgθ |                                |

#### MECHANICAL SPECIFICATION

|                      |   |
|----------------------|---|
| Diameter             | 3.8m                                      |
| Reflector material   | Aluminum                                  |
| Antenna Optics       | Front feed                                |
| Mount Type           | Elevation over Azimuth                    |
| Elevation Adjustment | 0° to 90° (continuous)                    |
| Azimuth Adjustment   | ±180°                                     |
| Surface Tolerance    | 0.4mm(r.m.s.)                             |
| Paint Color          | White                                     |
| Wind Loading         | Operational: 80kmph<br>Survival : 200kmph |
| Temperature          | -45°C ~50°C                               |
| Relative Humidity    | 100%                                      |
| Seismic(survival)    | 0.3G's horizontal 0.15 G's vertical       |

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