

# 1.2m C/Ku/Ka-Band Offset VSAT Antenna



## Features:

- 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

## 1.2m C/Ku/Ka-Band Offset VSAT Antenna Specifications

| ◆ R.F SPECIFICATIONS                                          | C-Band                     |                            | Ku-Band                                                                                     |                         | Ka-Band                    |             |
|---------------------------------------------------------------|----------------------------|----------------------------|---------------------------------------------------------------------------------------------|-------------------------|----------------------------|-------------|
|                                                               | RECEIVE                    | TRANSMIT                   | RECEIVE                                                                                     | TRANSMIT                | RECEIVE                    | TRANSMIT    |
| 1. Frequency (GHz)                                            | 3.625-4.2<br>3.4-4.2 ★     | 5.85-6.425<br>5.85-6.725 ★ | 12.25-12.75<br>10.95-12.75 ★                                                                | 14-14.5<br>13.75-14.5 ★ | 17.8-20.2                  | 28-30       |
| 2. Typical Gain(dBi)                                          | 32.03 at 3.8GHz            | 35.68 at 6.0GHz            | 42.05 at 12.5GHz                                                                            | 42.84 at 14.25GHz       | 45 at 19GHz                | 49.2at29GHz |
| 3. VSWR                                                       | 1.25:1                     | 1.25:1                     | 1.25:1                                                                                      | 1.25:1                  | 1.3:1                      | 1.3:1       |
| 4. Beamwidth (-3dB)                                           | 4.113°                     | 2.703°                     | 1.297°                                                                                      | 1.185°                  | 0.87°                      | 0.55°       |
| 5. Antenna Noise Temperature(K)                               | 2Port Feed                 |                            | 2Port Feed                                                                                  |                         |                            |             |
| 10°Elevation                                                  | 38K                        |                            | 44K                                                                                         |                         | 95K                        |             |
| 20°Elevation                                                  | 31K                        |                            | 39K                                                                                         |                         | 85K                        |             |
| 40°Elevation                                                  | 25K                        |                            | 35K                                                                                         |                         | 76K                        |             |
| 6. Typical G/T at 20°EL                                       | 14.18dB/K (3.8GHz,30K LNA) |                            | 21.68dB/K (12.5GHz, 70K LNA)                                                                |                         | 19.1dB/K (19GHz, 170K LNA) |             |
| 7. Power Handling Capability                                  | 5KW/Port                   |                            | 1KW/Port                                                                                    |                         | 1KW                        |             |
| 8. Feed Interface                                             | CPR-229                    | CPR-137                    | WR-75                                                                                       | WR-75                   | WR42                       | WR28        |
| 9. Feed Interface Loss                                        | 0.2dB                      | 0.15dB                     | 0.25dB                                                                                      | 0.2dB                   | 0.5dB                      | 0.8dB       |
| 10. Rx to Tx Isolation                                        |                            |                            |                                                                                             |                         |                            |             |
| 11. Cross Pol Isolation                                       | On Axis                    |                            |                                                                                             |                         | /                          |             |
| 12. Sidelobes                                                 | CCIR.580-6                 |                            | CCIR.580-6                                                                                  |                         | CCIR.580-6                 |             |
| ◆ MECHANICAL SPECIFICATION                                    |                            |                            | ◆ ENVIRONMENTAL SPECIFICATION                                                               |                         |                            |             |
| 1. Antenna Type                                               |                            |                            |                                                                                             |                         |                            |             |
| 2. Drive Type<br>Manual                                       |                            |                            | 2. Wind Loading,Operational (Decrease Precision)<br>60mph(97km/h)                           |                         |                            |             |
| 3. AZ Travel                                                  |                            |                            |                                                                                             |                         |                            |             |
| 4. EL Travel<br>10° to 90°                                    |                            |                            | 4. Ambient Temperature                                                                      |                         |                            |             |
| 5. POL Travel<br>±90°                                         |                            |                            | 100mm/h                                                                                     |                         |                            |             |
| 6. Reflector Material<br>Precision formed aluminum            |                            |                            | 6. Relative Humidity<br>0 to 100%                                                           |                         |                            |             |
| 7. Reflector Segments                                         |                            |                            | 7. Solar Radiation<br>360 BTU/h/ft <sup>2</sup> (1000Kcal/h/m <sup>2</sup> )                |                         |                            |             |
| 8. Mount Type<br>Pole mount                                   |                            |                            | 8. Ice                                                                                      |                         |                            |             |
| 9. Surface Accuracy<br>C/Ku: 0.5mm(R.M.S)<br>Ka: 0.3mm(R.M.S) |                            |                            | 9. Shock and vibration<br>As encountered during shipment by commercial<br>air, sea or truck |                         |                            |             |
|                                                               |                            |                            | 10.Seismic (Survival)<br>0.3G's horizontal, 0.15G's vertical                                |                         |                            |             |
|                                                               |                            |                            |                                                                                             |                         |                            |             |