



MODEL

4.8-METER

KPC, KPX, KPK

C, X, KU-BAND

KINGPOST



The VertexRSI 4.8-Meter C, X, and Ku-band antenna delivers exceptional performance for receive-only and for transmit/ receive applications world-wide. Model 4.8 KPC/KPX/KPK Compact Cassegrain antennas feature all metal reflectors which incorporate doubly-contoured, formed panels with matched radials and hub assemblies for easy bolt-together installation with no field alignment required.

The extra large center hub provides spacious accommodation for equipment mounting. The reflectors, coupled with elevation/azimuth kingpost pedestals, provide the stiffness and pointing accuracy required for X-band and Ku-band operation.

The antennas are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations.

## **Key Features**

- · "Bolt-Together" Configuration
- Meets FCC Regulation 25.209 (Ku-band)
- INTELSAT, ASIASAT, Sing Tel Type Approved
- Two/three/four/six-port feed options
- Anti-icing options available



## Mechanical

MODEL

4.8-METER

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**KINGPOST** 

| Azimuth Travel         10° Continuous Travel           Azimuth Travel Rate         1°sec CKW-Band           Elevation Travel Rate         0° 90°           Elevation Travel Rate         0.9°sec CKW-Band           Polarization Travel Rate         ±50° (for 4-port feed)           Polarization Travel Rate         1.5°/second           Reflector         Aurninum           Pedestal         Steel           Finishes         Finishes           Reflector Surface         Aluminum Panels with heat-diffusing white paint           Pedestal         Hot-dip galvanized           Weight         Reflector           Reflector         750 lbs. (340 kgs)           Pedestal         800 bs. (363 kgs)           Shipping         2,800 bs. (1,270 kg)           Shipping Volume         445 cubic feet (12 6 m²)           Surface Acouracy         0,020 inch (,5 mm) State           Foundation Size         12.5 ft. x 1.25 ft. x 1.25 ft. 3.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m²)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental         Cycrational 4"6" to 122" Fc (-15" to -50" C)           Survival Winds         Any Positi   |                                 |  |
|--|---------------------------------|--|
| ElevationTravel   0°-90°   ElevationTravel Rate   0.9° lsec. C/Ku-Band   PolarizationTravel   ±95° (for 2-port feed)   ±50° (for 4-port feed)   ±50° (for 4-port feed)   ElevationTravel Rate   1.5° lsecond   ElevationTravel Rate   1.5° lsecond   ElevationTravel Rate   1.5° lsecond   ElevationTravel Rate   1.5° lsecond   ElevationTravel Rate   ElevationTravel Rate   1.5° lsecond   ElevationTravel Rate   Elevat | Azimuth Travel                  | 120° Continuous Travel   |
| ElevationTravel Rate   | Azimuth Travel Rate             | 1°/sec. C/Ku-Band  |
| PolarizationTravel   | ElevationTravel                 | 0°-90°   |
| ### ### ##############################   | ElevationTravel Rate            | 0.9°/sec. C/Ku-Band  |
| Polarization Travel Rate         1.5° / second           Reflector         Aluminum           Pedestal         Steel           Finishes         Refelector Surface         Aluminum Panels with heat-diffusing white paint           Pedestal         Hot-dip galvanized           Weight         Reflector         750 lbs. (340 kgs)           Pedestal         800 lbs. (363 kgs)         Pedestal           Shipping         2,800 lbs. (1,270 kg)         Pedestal           Shipping Volume         445 cubic feet (12.6 m²)         Pedestal           Surface Accuracy         0,020 inch (.5 mm) Static         Pedestal           Foundation Size         12.5 ft x 1.25 ft x 1.25 ft x 1.35 ft x 1.35 ft (.381 m x 3.81 m x .38 m)         Pedestal           Concrete Volume         7.25 cubic yards (5.5 m²)         Pedestal         Pedestal           Bearing Pressure         2,000 PSF (10,000 kg/m²)         Pedestal         Pedestal         Pedestal           Invironmental         Pedestal         Pedestal </td <td>PolarizationTravel</td> <td>±95° (for 2-port feed)</td>  | PolarizationTravel              | ±95° (for 2-port feed)   |
| Reflector         Aluminum           Pedestal         Steel           Finishes         Aluminum Panels with heat-diffusing white paint           Pedestal         Hot-dip galvanized           Weight         Weight           Reflector         750 lbs. (340 kgs)           Pedestal         800 lbs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m²)           Surface Accuracy         0,020 inch (,5 mm) Static           Foundation Size         12.5 ft x 1.25 ft (13.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m²)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental         Verational Winds           Survival Winds         45 mph (72 km/h) Gusts to 60 mph (97 km/h)           Survival Winds         Any Position - 125 mph (200 km/h) @ 58°F (15° C)           Ambient Temperature         Operational: +6° to 122° F (-15° to +50° C)           Survival: -22° to 140° F (-30° to +60° C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/hR² (1000 Kcal/h/m²) <td></td> <td>±50° (for 4-port feed)</td>  |                                 | ±50° (for 4-port feed)   |
| Pedestal         Steel           Finishes         Refelector Surface         Aluminum Panels with heat-diffusing white paint           Pedestal         Hot-dip galvanized           Weight         Refector         750 bs. (340 kgs)           Pedestal         800 bs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m²)           Surface Accuracy         0.020 inch (.5 mm) Static           Foundation Size         12.5 ft x 12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m²)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental         Veraitonal Winds           Any Position - 125 mph (200 km/h) @ 58*F (15* C)           Ambient Temperature         Operational: +5* to 122* F (-15* to +50* C)           Survival: -22* to 140* F (-30* to +60* C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/h/ft² (1000 Kcal/h/m²)           Raidal (ce (Survival)         1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts   | Polarization Travel Rate        | 1.5° / second  |
| Finishes  Refelector Surface   | Reflector                       | Aluminum   |
| Refelector Surface Aluminum Panels with heat-diffusing white paint Pedestal Hot-dip galvanized  Weight Reflector 750 lbs. (340 kgs) Pedestal 800 lbs. (383 kgs) Shipping 2,800 lbs. (1,270 kg) Shipping Volume 445 cubic feet (12.6 m²) Surface Accuracy 0,020 inch (,5 mm) Static Foundation Size 12.5 ft x 12.5 ft x 12.5 ft x 12.5 ft (3.81 m x 3.81 m x .38 m) Concrete Volume 7,25 cubic yards (5.5 m²) Reinforcing Steel 500 pounds (227 kg) Soil Bearing Pressure 2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds 45 mph (72 km/h) Gusts to 60 mph (97 km/h) Survival Winds Any Position - 125 mph (200 km/h) @ 58°F (15°C) Ambient Temperature Operational: +5° to 122° F (-15° to +50°C) Survival: -22° to 140° F (-30° to +60°C)  Rain (Operational and Survival) Up to 4 in/h (10cm/h) Relative Humidity 0% to 100% with Condensation  Solar Radiation 360 BTU/h/ft² (1000 Kcal/h/m²) Radial Ice (Survival) 1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration As encountered during shipment by commercial air, sea or truck   | Pedestal                        | Steel  |
| Pedestal         Hot-dip galvanized           Weight         Weight           Reflector         750 lbs. (340 kgs)           Pedestal         800 lbs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m²)           Surface Accuracy         0,020 inch (,5 mm) Static           Foundation Size         12.5 ft.x 1.25 ft.x 1.25 ft (3.81 m x 3.81 m x  | Finishes                        |  |
| Weight         750 lbs. (340 kgs)           Pedestal         800 lbs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m³)           Surface Accuracy         0.020 inch (.5 mm) Static           Foundation Size         12.5 ft x 12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m³)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental           Operational Winds         45 mph (72 km/h) Gusts to 60 mph (97 km/h)           Survival Winds         Any Position - 125 mph (200 km/h) @ 58°F (15° C)           Ambient Temperature         Operational: +5° to 122° F (-15° to +50° C)           Survival: -22° to 140° F (-30° to +60° C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/h/ft² (1000 Kcal/h/m²)           Radial Ice (Survival)         1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts           Shock and Vibration         As encountered during shipment by commercial air, sea or truck   | Refelector Surface              | Aluminum Panels with heat-diffusing white paint                |
| Reflector         750 lbs. (340 kgs)           Pedestal         800 lbs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m³)           Surface Accuracy         0.020 inch (.5 mm) Static           Foundation Size         12.5 ft x 1.25 ft x 1.25 ft (3.81 m x 3.81 m x 3.81 m x 3.8 m)           Concrete Volume         7.25 cubic yards (5.5 m³)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental           Operational Winds         45 mph (72 km/h) Gusts to 60 mph (97 km/h)           Survival Winds         Any Position - 125 mph (200 km/h) @ 58°F (15° C)           Ambient Temperature         Operational: +5° to 122° F (-15° to +50° C)           Survival: -22° to 140° F (-30° to +60° C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/h/ft² (1000 Kcal/h/m²)           Radial Ice (Survival)         1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts           Shock and Vibration         As encountered during shipment by commercial air, sea or truck   | Pedestal                        | Hot-dip galvanized   |
| Pedestal         800 lbs. (363 kgs)           Shipping         2,800 lbs. (1,270 kg)           Shipping Volume         445 cubic feet (12.6 m³)           Surface Accuracy         0.020 inch (.5 mm) Static           Foundation Size         12.5 ft x 12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m³)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental           Operational Winds         45 mph (72 km/h) Gusts to 60 mph (97 km/h)           Survival Winds         Any Position - 125 mph (200 km/h) @ 58°F (15° C)           Ambient Temperature         Operational: +5° to 122° F (-15° to +50° C)           Quarrival: -22° to 140° F (-30° to +60° C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/h/ft² (1000 Kcal/h/m²)           Radial Ice (Survival)         1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts           Shock and Vibration         As encountered during shipment by commercial air, sea or truck  | Weight                          |  |
| Shipping   2,800 lbs. (1,270 kg)   | Reflector                       | 750 lbs. (340 kgs)   |
| Shipping Volume         445 cubic feet (12.6 m²)           Surface Accuracy         0.020 inch (.5 mm) Static           Foundation Size         12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)           Concrete Volume         7.25 cubic yards (5.5 m²)           Reinforcing Steel         500 pounds (227 kg)           Soil Bearing Pressure         2,000 PSF (10,000 kg/m²)           Environmental           Operational Winds         45 mph (72 km/h) Gusts to 60 mph (97 km/h)           Survival Winds         Any Position - 125 mph (200 km/h) @ 58°F (15° C)           Ambient Temperature         Operational: +5° to 122° F (-15° to +50° C)           Survival: -22° to 140° F (-30° to +60° C)           Rain (Operational and Survival)         Up to 4 in/h (10cm/h)           Relative Humidity         0% to 100% with Condensation           Solar Radiation         360 BTU/h/ft² (1000 Kcal/h/m²)           Radial Ice (Survival)         1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts           Shock and Vibration         As encountered during shipment by commercial air, sea or truck  | Pedestal                        | 800 lbs. (363 kgs)   |
| Surface Accuracy  0.020 inch (.5 mm) Static  Foundation Size  12.5 ft x 12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)  Concrete Volume  7.25 cubic yards (5.5 m²)  Reinforcing Steel  500 pounds (227 kg)  Soil Bearing Pressure  2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds  45 mph (72 km/h) Gusts to 60 mph (97 km/h)  Survival Winds  Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature  Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Up to 4 in/h (10cm/h)  Relative Humidity  0% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck  | Shipping                        | 2,800 lbs. (1,270 kg)  |
| Foundation Size  12.5 ft x 12.5 ft (3.81 m x 3.81 m x 3.81 m x 3.8 m)  Concrete Volume  7.25 cubic yards (5.5 m²)  Reinforcing Steel  500 pounds (227 kg)  Soil Bearing Pressure  2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds  45 mph (72 km/h) Gusts to 60 mph (97 km/h)  Survival Winds  Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature  Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Up to 4 in/h (10cm/h)  Relative Humidity  0% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck  | Shipping Volume                 | 445 cubic feet (12.6 m³)                                       |
| Concrete Volume 7.25 cubic yards (5.5 m³)  Reinforcing Steel 500 pounds (227 kg)  Soil Bearing Pressure 2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds 45 mph (72 km/h) Gusts to 60 mph (97 km/h)  Survival Winds Any Position - 125 mph (200 km/h) @ 58°F (15°C)  Ambient Temperature Operational: +5° to 122° F (-15° to +50°C)  Survival: -22° to 140° F (-30° to +60°C)  Rain (Operational and Survival) Up to 4 in/h (10cm/h)  Relative Humidity O% to 100% with Condensation  Solar Radiation 360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival) 1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration As encountered during shipment by commercial air, sea or truck   | Surface Accuracy                | 0.020 inch (.5 mm) Static                                      |
| Reinforcing Steel 500 pounds (227 kg)  Soil Bearing Pressure 2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds 45 mph (72 km/h) Gusts to 60 mph (97 km/h)  Survival Winds Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival) Up to 4 in/h (10cm/h)  Relative Humidity 0% to 100% with Condensation  Solar Radiation 360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival) 1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration As encountered during shipment by commercial air, sea or truck   | Foundation Size                 | 12.5 ft x 12.5 ft x 1.25 ft (3.81 m x 3.81 m x .38 m)          |
| Soil Bearing Pressure 2,000 PSF (10,000 kg/m²)  Environmental  Operational Winds 45 mph (72 km/h) Gusts to 60 mph (97 km/h)  Survival Winds Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival) Up to 4 in/h (10cm/h)  Relative Humidity 0% to 100% with Condensation  Solar Radiation 360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival) 1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration As encountered during shipment by commercial air, sea or truck  | Concrete Volume                 | 7.25 cubic yards (5.5 m³)                                      |
| Environmental         Operational Winds       45 mph (72 km/h) Gusts to 60 mph (97 km/h)         Survival Winds       Any Position - 125 mph (200 km/h) @ 58°F (15° C)         Ambient Temperature       Operational: +5° to 122° F (-15° to +50° C)         Survival: -22° to 140° F (-30° to +60° C)         Rain (Operational and Survival)       Up to 4 in/h (10cm/h)         Relative Humidity       0% to 100% with Condensation         Solar Radiation       360 BTU/h/ft² (1000 Kcal/h/m²)         Radial Ice (Survival)       1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts         Shock and Vibration       As encountered during shipment by commercial air, sea or truck   | Reinforcing Steel               | 500 pounds (227 kg)  |
| Operational Winds  Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature  Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Up to 4 in/h (10cm/h)  Relative Humidity  O% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck   | Soil Bearing Pressure           | 2,000 PSF (10,000 kg/m²)                                       |
| Survival Winds  Any Position - 125 mph (200 km/h) @ 58°F (15° C)  Ambient Temperature  Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Up to 4 in/h (10cm/h)  Relative Humidity  O% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck  | Environmental                   |  |
| Ambient Temperature  Operational: +5° to 122° F (-15° to +50° C)  Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Up to 4 in/h (10cm/h)  Relative Humidity  O% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck  | Operational Winds               | 45 mph (72 km/h) Gusts to 60 mph (97 km/h)                     |
| Survival: -22° to 140° F (-30° to +60° C)  Rain (Operational and Survival)  Relative Humidity  0% to 100% with Condensation  Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck   | Survival Winds                  | Any Position - 125 mph (200 km/h) @ 58°F (15° C)               |
| Rain (Operational and Survival)     Up to 4 in/h (10cm/h)       Relative Humidity     0% to 100% with Condensation       Solar Radiation     360 BTU/h/ft² (1000 Kcal/h/m²)       Radial Ice (Survival)     1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts       Shock and Vibration     As encountered during shipment by commercial air, sea or truck  | Ambient Temperature             | Operational: +5° to 122° F (-15° to +50° C)                    |
| Relative Humidity     0% to 100% with Condensation       Solar Radiation     360 BTU/h/ft² (1000 Kcal/h/m²)       Radial Ice (Survival)     1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts       Shock and Vibration     As encountered during shipment by commercial air, sea or truck  |                                 | Survival: -22° to 140° F (-30° to +60° C)                      |
| Solar Radiation  360 BTU/h/ft² (1000 Kcal/h/m²)  Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck  | Rain (Operational and Survival) | Up to 4 in/h (10cm/h)  |
| Radial Ice (Survival)  1 inch (2.5 cm) on all surfaces, 1/2 inch (1.3 cm) on all surfaces with 80 mph (130 km/h) wind gusts  Shock and Vibration  As encountered during shipment by commercial air, sea or truck   | Relative Humidity               | 0% to 100% with Condensation                                   |
| wind gusts  Shock and Vibration As encountered during shipment by commercial air, sea or truck   | Solar Radiation                 | 360 BTU/h/ft² (1000 Kcal/h/m²)                                 |
| 3 · F · · · · · · · · · · · · · · · · ·  | Radial Ice (Survival)           |  |
| Seismic (Survival) Mercalli X / 0.3 G's horizontal, 0.1 G's vertical   | Shock and Vibration             | As encountered during shipment by commercial air, sea or truck |
|  | Seismic (Survival)              | Mercalli X / 0.3 G's horizontal, 0.1 G's vertical              |

## Antenna Products

| Electrical                        | C-Band 2-Port<br>Circular Polarized |                                 | Ku-Band 2-Po  | Ku-Band 2-Port<br>Linear Polarized |            | Ku-Band 4-Port Linear Polarized |  |
|-----------------------------------|-------------------------------------|---------------------------------|---------------|------------------------------------|------------|---------------------------------|--|
|                                   | Receive                             | Transmit                        | Receive       | Transmit                           | Receive    | Transmit                        |  |
| Frequency (GHz)                   | 3.625-                              | 5.850-                          | 10.95-        | 13.75-                             | 10.95-     | 13.75-                          |  |
|                                   | 4.200                               | 6.425                           | 12.75         | 14.50                              | 12.75      | 14.50                           |  |
| Antenna Gain at midband, dBi      | 44.0                                | 48.1                            | 53.4          | 54.9                               | 53.5       | 55.2                            |  |
| Antenna Noise Temperature         |                                     |                                 |               |                                    |            |                                 |  |
| 5° Elevation                      | 60° K                               |                                 | 72 °K         |                                    | 80° K      |                                 |  |
| 10° Elevation                     | 57° K                               |                                 | 50° K         |                                    | 67° K      |                                 |  |
| 20° Elevation                     | 47° K                               |                                 | 37° K         |                                    | 58° K      |                                 |  |
| 40° Elevation                     | 43° K                               |                                 | 28 °K         |                                    | 53° K      |                                 |  |
| Typical G/T at midband            |                                     |                                 |               |                                    |            |                                 |  |
| C-Band 35° K LNA                  | 25.2 dB/K                           |                                 |               |                                    |            |                                 |  |
| Ku-Band 70° K LNA                 |                                     |                                 | 32.7 dB/K     |                                    | 32.4 dB/K  |                                 |  |
| Pattern Beamwidth                 |                                     |                                 |               |                                    |            |                                 |  |
| -3 dB                             | 1.14°                               | 0.68°                           | 0.34°         | 0.29°                              | 0.34°      | 0.28°                           |  |
| -15 dB                            | 2.39°                               | 1.43°                           | 0.71°         | 0.61°                              | 0.72°      | 0.59°                           |  |
| Sidelobe Performance              | Meets ITU-RS                        | Meets ITU-RS-580 Specifications |               | Meets FCC 25.209, Eutelsat         |            | Meets Eutelsat or               |  |
|                                   |                                     |                                 | or ITU-RS-580 | or ITU-RS-580 Specifications       |            | ITU-RS-580 Specifications       |  |
| Cross POL Isolation (within 1 dB) | 19.7 dB                             | 27.3 dB                         | 35 dB         | 35 dB                              | 35 dB      | 35 dB                           |  |
| VSWR (max)                        | 1.55:1                              | 1.30:1                          | 1.30:1        | 1.30:1                             | 1.30:1     | 1.30:1                          |  |
| Axial Ratio                       | 1. 81 dB                            | 0.75 dB                         |               |                                    |            |                                 |  |
| Port to Port Isolation            |                                     |                                 |               |                                    |            |                                 |  |
| Rx/Tx (Rx Freq)                   | 0 .0 dB                             | -60 dB                          | 0 dB          | -30 dB                             | 0 dB       | -50 dB                          |  |
| Tx/Rx (Tx Freq)                   | -100 dB                             | 0 dB                            | -30 dB        | 0 dB                               | -85 dB     | 0 dB                            |  |
| Rx/Rx, Tx/Tx (Same Band)          |                                     |                                 |               |                                    | 30 dB      | 30 dB                           |  |
| Feed Insertion Loss               | 0.40 dB                             | 0.25 dB                         | 0.45 dB       | 0.45 dB                            | 0.55 dB    | .40 dB                          |  |
| Waveguide Interface Flange        | CPR-229G                            | CPR-137G                        | WR-75 Flat    | WR-75 Flat                         | WR-75 Flat | WR-75 Flat                      |  |
| Total Power Handling Capability   |                                     | 2 KW                            |               | 2 KW                               |            | 2 KW                            |  |
| RF Specification                  | 975-2635B                           |                                 | 975-2         | 975-2019E                          |            | 975-2114                        |  |
| Type Approval                     | INTE                                | INTELSAT                        |               | INTELSAT, ASIASAT, Sing Tel        |            |                                 |  |

## **Antenna Products**

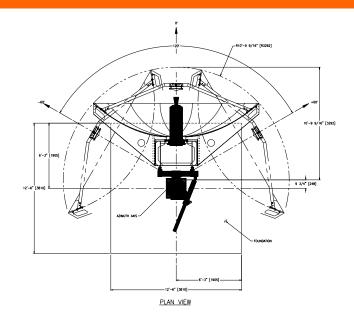
MODEL

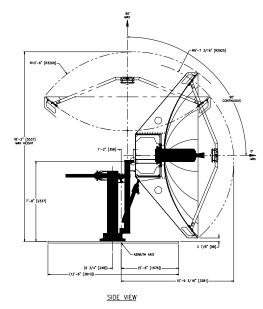
**4.8-METER** 

KPC, KPX, KPK

C, X, KU-BAND

**KINGPOST** 







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