1.2 Meter Ku-Band Antenna - Receive Transmit

Series 1132

Satcom & Antenna Technologies Division

Overview

CPI Satcom & Antenna Technologies Inc. (CPI SAT) 1.2m Ku-Band VSAT Antenna Series 1132 is ideally suited for demanding commercial applications. The one-piece compression molded reflector is precision manufactured for high-efficiency Ku-Band operation. The Az/El mount is designed for easy installation on standard 2-7/8" OD or 3.00" OD Installation Mounts, and features
fine Azimuth and Elevation Adjustments. The Az/El mount is constructed from heavy gauge pre-galvanized steel for strength and corrosion resistance.

FEATURES

- Transmit quality precision SMC reflector
- Fine elevation and azimuth adjustments
- Available with a variety of feed and feed support options
- Long focal length optics for low cross-pol
- Durable and rugged construction for Ease of shipping and handling
- Heavy gauge galvanized steel Az/El mount

BENEFITS:

- One-piece compression molded reflector
- Easy installation

APPLICATIONS:

- Ideally suited for demanding commercial applications

CPI 1.2 Meter Ku-Band Antenna - Receiver Transmit

Electrical

Antenna Size
- 1.2 m (48 in.)

Operating Frequency (GHz)
- Receive=10.70 - 12.75 GHz
- Transmit=13.75 - 14.50 GHz

Midband Gain (+/-.3 dBi)
- Receive=41.5 dBi
- Transmit=43.0 dBi

Antenna Noise Temperature
- 20° Elevation=46°K
- 30° Elevation=43°K

Antenna Sidelobe Envelope
- Per ITU-R S.580-6

Antenna Beamwidth
- Receive=1.5°
- Transmit=1.2°

Polarization
- Linear, Orthogonal

Cross-Pol Isolation
- 30 dB on Axis
- 26 dB in 1 dB Contour

Feed Specifications - Standard RxTx

Operating Frequency (GHz)
- Receive=10.70 - 12.75 GHz
- Transmit=13.75 - 14.50 GHz

Port-Port Isolation
- Transmit=85 dB Min
- Receive=30 dB Min

VSWR
- Transmit=1.3:1 Max
- Receive=1.5:1 Max

Insertion Loss
- Transmit=0.2 dB Max
- Receive=0.4 dB Max

Mechanical Performance

Reflector Material
- Glass Fiber Reinforced Polyester SMC

Antenna Optics
- Prime Focus, Offset, 0.8 F/D

Mount Type
- Elevation over Azimuth

Elevation Adjustment Range
- 10° to 90° Continuous Fine Adjustment

Azimuth Adjustment Range
- 360° Continuous, +/- 10° Fine Adjustment

Mast Pipe Interface
- 2.5 SCH Pipe (2.88" OD)
  or 3.00" OD (73 or 76mm)

Max RF Equipment Weight
- Tier 2 Feed Support - 12 lb (5.5 kg)

Environmental Performance

Wind Loading
- Operational = 45 mi/h (72 km/h)
- Survival = 125 mi/h (200 km/h)

Temperature
- Operational = -40° to 140° F (-40° to 60°C)
- Survival = -50° to 160° F (-46° to 71°C)

Rain
- Operational = 1/2"/h (13mm/h)
- Survival = 2"/h (51mm/h)

Ice
- Survival = 1/2" (13mm) Radial Ice

Atmospheric Conditions
- Salt, Pollutants, and contaminants as
  Encountered in coastal and industrial areas

Solar Radiation
- 360 BTU/h/ft2 (1135 W/m2)

Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040.

The data should be used for basic information only.
Formal, controlled specifications may be obtained from CPI for use in equipment design.

Communications & Power Industries

Satcom & Antenna Technologies Division
1700 NE Cable Drive
Conover, NC
USA 28613

tel +1 770-689-2040
+1 888-874-7646 (In North America)
+1 619-240-8480 (Outside North America)
email CustomerCareSAT@cpii.com
web www.cpii.com

8/20