RADITEK

SATCOM
C & Ku Band Antenna

C & Ku Band Antenna System

1.2 Meter Rx-Tx Class I

RoHS COMPLIANT

Features

- One-piece precision offset thermosetmolded reflector.
- Single bolt fine elevation adjustments.
- Galvanized .75" (19 mm) O.D. feed support legs.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Available with C-Band or Ku-Band feeds.
- Class I system designed for typical 1W and 2W Block Up-Converters (BUCs).*
  *4.5 lb or 2 kg max. Weight for RF electronics (BUC and LNB) Ku-Band
  11 lb or 5 kg max. Weight for RF electronics (BUC and LNB) at C-Band

Order Examples: RANT-Ku-1.2m-v7
Description: (Antenna System, Ku Band, 1.2 Meter diameter, v7)

RF Performance		C-Band	Ku-Band
Effective Aperture		1.2 m (48 in)	1.2 m (48 in)
Operating Frequency	Tx	5.850 - 6.725 GHz	13.75 - 14.50 GHz
	Rx	3.400 - 4.200 GHz	10.70- 12.75 GHz
Polarization		Linear, Orthogonal	Linear, Orthogonal
Gain (±.3 dBi)	Tx	35.9 dBi @ 6.138 GHz	43.3 dBi @ 14.25 GHz
	Rx	32.0 dBi @ 3.913 GHz	41.8 dBi @ 11.95 GHz
3 dB Beamwidth	Tx	2.7° @ 6.1 GHz	1.2° @ 14.3 GHz
	Rx	4.2° @ 3.9 GHz	1.5° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)			
Mainbeam < q < 20°		29-25 Log q	29-25 Log q
20° < q < 26.3°		-3.5	-3.5
26.3° < q < 48°		32-25 Log q	32-25 Log q
48°< q < 180°		-10	-10
Antenna Cross-Polarization		>30 dB (on axis)	>30 dB (on axis)
Antenna Noise Temperature	10° El	60°K	45°K
	20° El	52°K	37°K
	30° El	50°K	34°K
VSWR	Tx	1.3:1	1.3:1
	Rx	1.4:1	1.5:1
Isolation, Port-to-Port	Tx	60 dB	110 dB
	Rx	60 dB	35 dB
Feed Interface	Tx	CPR-137 or Type N	WR75 Cover Flange (UBR120)
	Rx	CPR-229	WR75 Cover Flange (UBR120)

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code-v7

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Mechanical Performance	
Reflector Material	Glass Fiber Reinforced Polyester
Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	10°-90° Continuous Fine Adjustment
	(0° to 45° Inverted)
Azimuth Adjustment Range	360° Continuous
Mast Pipe Interface	2.88 in - 3.00 in (73-76 mm) Diameter
Wind Loading Operational	45 mi/h (72 km/h)
Survival	125 mi/h (200 km/h)
Temperature	-50°C to 80°C
Humidity	0 to 100% (Condensing)
Atmosphere	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft2
Shock and Vibration	As Encountered During Shipping and Handling

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