

Satellite Earth Station Antennas

3.7Meter C/Ku-Band Prime Focus Rx Antenna



Features

- Precision Compression Molded Centerfed Reflector
- Low Transportation Cost with Eight Panel Reflector
- Individual Panels Interchangeable and Field Replaceable
- Fully Galvanized Steel Mounts
- Az/EI or Declination Corrected Polar Mounts
- Optional Galvanized King Post Available

Summary

The 3.7 Meter is a precise, quality state-of-the-art C or Ku-Band Receive-Only Antenna. It features a variety of mounts and a glass fiber reinforced galvanized reflector which is powder coated for superior protection against the elements.

The 3.7 Meter Receive-Only reflector consists of 8 draw die formed contoured petals with matched radial beams. This straightforward construction approach requires no field alignment, significantly reducing installation time and cost. The 3.7 Meter Prime Focus is one of the highest performance antennas in the industry due to its sophisticated, precision SMC compression molding process technology.

ATCi provides the best value antenna solutions to market with competitive pricing, highest quality products and unmatched engineering support.

Applications

- Broadcasting
- Cable TV & Radio
- Corporate Business
- Government & Military
- Educational Institutions

Specifications: 3.7 Meter C/Ku-Band Prime Focus Rx Antenna

ELECTRICAL	Series 1374-1375	
	C-Band	Ku-Band
Antenna Size	3.7 M (12 ft.)	3.7 M (12 ft.)
Operating Frequency	3.625 - 4.2 10.95 - 12.75	3.625 - 4.2 10.95 - 12.75
Midband Gain (+/- .5 dB)	40.9 dBi	50.7 dBi
3 dB Beamwidth	1.45°	0.5°
Antenna Noise Temperature		
20° Elevation	25K	23K
30° Elevation	23K	22K
Feed Interface	CPR 229F WR 75	CPR 229F WR 75
First Sidelobe (Typical)	-20 dB	-20 dB
Cross-Pol Isolation (Linear)	>30 dB (on axis)	>30 dB (on axis)
VSWR	1.3:1 Max.	1.3:1 Max.
Insertion Loss	0.2 dB Max.	0.2 dB Max.
 MECHANICAL		
Reflector Material	Eight Segment Glass Fiber Reinforced Polyester SMC	
Antenna Optics	Prime Focus, Axisymmetric	
Mast Pipe Size	6" SCH 80 Pipe (6.62" OD) 16.83 cm.	
Elevation Adjustment Range	10° to 70° Continuous Fine Adjustment (90° Optional)	
Azimuth Adjustment Range	360° Continuous/Polar Mount Covers Any 90° Segment of Arc	
	90° Arc Coverage With 36" Actuator	
Declination Corrected Polar Range (1305/1345/1375)	.36 / Quad Feed Support	.37 / Quad Feed Support
f/D Ratio/Feed Support	520 lbs. (234 kg.)	575 lbs. (259 kg.)
Shipping Specifications		
 ENVIRONMENTAL PERFORMANCE		
Wind Loading	45 mph (72 km/h)	
Operational	125 mph (201 km/h)	
Survival		
Temperature	-40° to 140° F (-40 to 60° C)	
Operational	-50° to 160° F (-46° to 71° C)	
Survival		
Rain	1/2" / hr.	
Operational	2" / hr.	
Survival	—	
Ice	1/2" radial	
Operational		
Survival		
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas.	
Solar Radiation	360 BTU/h/ft ²	