



3.7 METER

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: 3.7m 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	
Declination Corrected Polar Range (1305/1345/1375)		90° Arc Coverage With 36" Actuator	
f/D Ratio/Feed Support		.36 / Quad Feed Support	.37 / Quad Feed Support
Shipping Specifications		520 lbs. (234 kg.)	575 lbs. (259 kg.)
ENVIRONMENTAL PERFORMANCE			
Wind Loading			
Operational		45 mph (72 km/h)	
Survival		125 mph (201 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" / hr.	
Survival		2" / hr.	
Ice			
Operational		
Survival		1/2" radial	
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas.	
Solar Radiation		360 BTU/h/ft²	