

Satcom & Antenna Technologies Division



Key Features

- Precision SMC Reflector
- Fine Elevation Adjustment
- Wide C-Band RxO Feed
- Linear, Dual Polarity
- Durable and Rugged Construction for Ease of Shipping and Handling
- Heavy Gauge-Galvanized Steel Az/EI Mount

Description

CPI SAT's 3.7m Wide C-Band RxO Antenna Series 1374 is ideally suited for demanding commercial applications. The 8-piece compression molded reflector is precision manufactured for high-efficiency operation. The Az/EI mount is designed for easy installation on standard 6" Schedule Pipe (6.63" or 168mm OD) Installation Mounts and features fine Elevation Adjustment. The Az/EI mount is constructed from heavy gauge galvanized steel for strength and corrosion resistance.

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Electrical Performance

- **Antenna Size**
 - 3.7m (144 in.)
- **Operating Frequency (GHz)**
 - 3.40-4.20 GHz
- **Midband Gain (+/- .3 dB)**
 - 40.9 dBi
- **Antenna Noise Temperature**
 - 10° Elevation = 33 K
 - 20° Elevation = 31 K
 - 30° Elevation = 27 K
- **Antenna Sidelobe Envelope**
 - Per ITU-R S.580-6
- **Antenna Beamwidth**
 - 1.5°
- **Polarization**
 - Linear, Orthogonal
- **Cross-Pol Isolation**
 - > 30 dB on Axis

Feed Specifications – PN 0800-3953

- **Operating Frequency (GHz)**
 - 3.40-4.20 GHz
- **VSWR**
 - 1.4:1 Max
- **Isolation, Port-to-Port**
 - 35 dB
- **Feed Interface**
 - 2 x CPR229F

Mechanical Performance

- **Reflector Material**
 - Glass Fiber Reinforced Polyester SMC
- **Antenna Optics**
 - Prime Focus, Axisymmetric, 0.375 F/D, 8 pc Reflector
- **Mount Type**
 - Elevation over Azimuth
- **Elevation Adjustment Range**
 - 10° to 70° Continuous Fine Adjustment
- **Azimuth Adjustment Range**
 - 360° Continuous
- **Mast Pipe Interface**
 - 6" SCH Pipe (6.63" OD) 168 mm OD

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 = ½ inch/h (13mm/h)
 - Survival = 2 inch/h (51mm/h)
- **Ice**
 - Survival = ½ inch (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.



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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3.7M RxO Series 1374 6-2021 Pending TMP