

Type 120

1.2m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

FEATURES

- One-piece compression-molded offset reflector.
- Sturdy AZ/EL mount with elevation scale.
- Single bolt fine elevation adjustment.
- Galvanized .75" O.D. feed support legs.
- Factory pre-assembled mount.
- Cadmium-plated hardware for maximum corrosion resistance.
- Available with a wide variety of C-Band or Ku-Band feeds.



The Channel Master[®] Type 120 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is compression-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape.

The AZ/EL mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. Four heavy-duty lockdown bolts secure the mount to any 3.00" O.D. mast and prevent slippage in high winds. A specially-formulated powder paint process offers excellent protection from weather-related corrosion.

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Specifications

RF PERFORMANCE

	<u>C-Band</u>	<u>Ku-Band</u>
Effective Aperture	1.2m (48 in.)	1.2m (48 in.)
Operating Frequency	3.4 - 4.8 GHz	10.95 - 12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Gain @ 3.95/11.95 GHz	32.0 dBi (Typical)	42.0 dBi (Typical)
3 dB Beamwidth	4.4°	1.6°
Antenna Noise Temperature @ 30° Elevation	32°K	24°K
VSWR	1.4:1 Max.	1.3:1 Max.
Cross-Polarization Discrimination	>30 dB On Axis (Linear)	>30 dB On Axis (Linear)
Feed Interface	CPR-229	WR-75

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°-70° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous
Mast Pipe Interface	3.00 Inch (76 mm) Diameter
Wind Loading	Operational Survival
	50 Mi/h 125 Mi/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/ft ²
Shock and Vibration	As Encountered During Shipping and Handling



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