Distributeur Geosat
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Type 180

1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

FEATURES

- One-piece precision offset compression molded 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 180 1.8m 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 4.50” O.D. mast and prevent slippage in high winds. A specially-formulated powder paint process offers excellent protection from weather-related corrosion. Hot-dip galvanizing is optional for extreme environmental conditions.

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Channel Master®

1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

Specifications

RF PERFORMANCE

	C-Band	Ku-Band
Effective Aperture	1.8m (71 in.)	1.8m (71 in.)
Operating Frequency	3.7-4.2 GHz	10.95-12.75 GHz
Polarization	Linear (Circular optional)	Linear (Circular optional)
Midband Gain (±.2 dBi)	35.3 dBi	45.5 dBi
3 dB Beamwidth	3.0˚	.99˚
Antenna Noise Temperature @ 30˚ EL	30˚K	23˚K
VSWR	1.3:1 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		4.50 Inch (114 mm) Diameter
Wind Loading	Operational	50 Mi/h
	Survival	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/ft²
Shock and Vibration		As Encountered During Shipping and Handling