



## PRODUCT SPECIFICATIONS

### Detail Photos

*(on right from top to bottom)*

Pre-assembled Az/El Mount

Fine-elevation adjustment with stamped degree scale

Ku feed assembly with LNB cover



The reflector is thermoset-molded for strength and surface accuracy.

## 1.0 m Receive-Only Antenna System TYPE 100

The Andrew Corporation 1.0 m Type 100 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-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. The Az/El mount secures the antenna to either a 2.38" (60 mm) or 2.88"-3.00" (73-76 mm) O.D. mast and prevents slippage in high

winds. A specially formulated powder paint process offers excellent protection from weather-related corrosion.

- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Galvanized .75" (19 mm) O.D. feed support legs.
- Factory pre-assembled Az/El mount.
- Plated hardware for maximum corrosion resistance.
- Available with a wide variety of Ku-Band feeds.

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## SPECIFICATIONS

### TYPE 100 1.0 m Receive-Only Antenna System

#### RF Performance

Effective Aperture	1.0m (40 in.)
Operating Frequency	10.95 - 12.75 GHz
Polarization	Linear (Circular Optional)
Gain @ 11.95 GHz	40.5 dBi
3 dB Beamwidth	1.95°
Antenna Noise Temperature @ 30° El	25°K
VSWR	1.3:1
Cross-Polarization Discrimination (Linear)	>30 dB On Axis
Feed Interface	WR75 Cover Flange (UBR120)

(All specifications typical)

#### 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	2.38 in (60 mm) or 2.88 in - 3.00 in (73-76 mm) Diameter
Wind Loading	Operational 50 mi/h (80 km/h) Survival 125 mi/h (200 km/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 <sup>2</sup>
Shock and Vibration	As Encountered During Shipping and Handling



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