

PRODUCT  
SPECIFICATIONS

Detail Photos

(on right from top to bottom)

Pre-assembled Az/El Mount  
(73-76 mm)

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 ASC Signal 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 60 mm (2.38") or 73-76 mm (2.88"-3.00") O.D. mast and prevents slippage in high winds.

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

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Galvanized 19 mm (.75") 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.

## SPECIFICATIONS

### Type 100 1.0 m Receive Only Antenna System

#### RF Performance

Effective Aperture .....	1.0 m (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 Flat Flange

(All specifications typical)

\*Function of feed specifications

#### 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 (60 mm) 10° - 90° Continuous Fine Adjustment (73 mm)
Azimuth Adjustment Range .....	360° Continuous
Mast Pipe Interface .....	60 mm (2.38 in) or 73 - 76 mm (2.88 - 3.00 in) Diameter
Wind Loading .....	Operational .....
	Survival .....
	80 km/h (50 mph) 200 km/h (125 mph)
Temperature .....	-50°C to 80°C
Humidity .....	0 to 100% (Condensing)
Atmosphere .....	Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation .....	360 BTU/h/ft <sup>2</sup>
Shock and Vibration .....	As Encountered During Shipping and Handling



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