

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 elliptical reflection offers greater adjacent satellite reflection in a lower profile configuration.



## 75 cm Elliptical Receive-Only Antenna System

### TYPE 755

The ASC Signal 75 cm Type 755 Elliptical 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/Skew mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. A specially formulated powder paint process offers excellent protection from weather-related corrosion. The mount secures the antenna to any 60 mm (2.38") mast and prevents slippage in high wind.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Factory pre-assembled Az/El/Skew mount with 5° - 90° elevation scale and ±90° reflector polarization feature.
- Extruded aluminum feed support arm.
- Includes Ku-band receive-only single polarity feed.

## SPECIFICATIONS

### Type 755 75 cm Elliptical Receive Only Antenna System

#### RF Performance

Effective Aperture .....	75 cm (30 in)
Dimensions of Reflector .....	91 cm x 68.5 cm
Operating Frequency .....	10.95 - 12.75 GHz
Polarization .....	Linear
Gain @ 11.95 GHz .....	38 dBi
3 dB Beamwidth .....	2.0°
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)

#### Mechanical Performance

Reflector Material .....	Glass Fiber Reinforced Polyester
Antenna Optics .....	One-Piece Offset Feed Prime Focus
Mount Type .....	Skew over Elevation over Azimuth
Elevation Adjustment Range .....	5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range .....	360° Continuous
Polarization (Skew) Adjustment Range .....	±90° Continuous
Mast Pipe Interface .....	60 mm (2.38 in)
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



ASC Signal Corporation  
1315 Industrial Park Drive  
Smithfield, NC 27577  
USA

Telephone: +1-919-934-9711

Internet: [www.ascsignal.com](http://www.ascsignal.com)

All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

ASC-VSAT24.1

© 2007 ASC Signal Corporation