# Type 100: 1.0m Antenna System



- ISO 9001:2008
   Certificate of Registration
- Factory pre-assembled Az/El mount.
- One-piece thermoset-molded reflector.
- Single bolt fine elevation adjustment.
- Available with a wide variety of Ku-band feeds.
- Galvanized 19 mm (.75")
   O.D. feed support legs.
- Plated hardware for maximum corrosion resistance.
- All materials comply with EU Directive No. 2011/65/EC (RoHS).





The **Skyware Global 1.0m 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 strengthens the antenna and helps to sustain the necessary parabolic shape.
- The Az/El mount is contructed from heavy-gauge steel to provide a rigid support to the reflector.
- The Az/El mount secures the antenna to either a 60mm (2.38") or 73-76mm (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.



#### PRODUCT SPECIFICATIONS

### **RF Performance**

Effective Aperture 1.0m (40 in)
Operating Frequency         13.75 - 14.50GHz           RX.         .10.70 - 12.75GHz
Polarization Linear, Orthogonal
Gain (±0.2 dB) TX
3 dB Beamwidth TX1.2° RX1.7°
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Antenna Cross-Polarization

## 1.0 m Ku-Band Offset Antenna

#### **Mechanical Performance**

Reflector Material Glass Fiber Reinforced Polyester
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation over Azimuth
Elevation Adjustment Range 7°-84° Continuous Fine Adjustment
Azimuth Adjustment Range 360° Continuous ±20° Fine Adjustment
Mast Pipe Interface

# **Enviromental Performance**

Wind Loading

Oper	ational	45 mph (73 km/h)
Func	tional Survival	80 mph (128 km/h)
Ultim	nate Survival	. 125 mph (200 km/h)
Oper	rational Temperature	40°C to +60°C
Survi	ival Temperature	50°C to +80°C
Hum	idity	to 100% (Condensing)
Atmo	osphere	lard Hardware 720 Hrs rements (ASTM B-117)
Solar	Radiation	360 BTU/h/ft²

Shock and Vibration. . . . . . . . . As Encountered during Shipping and handling





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