

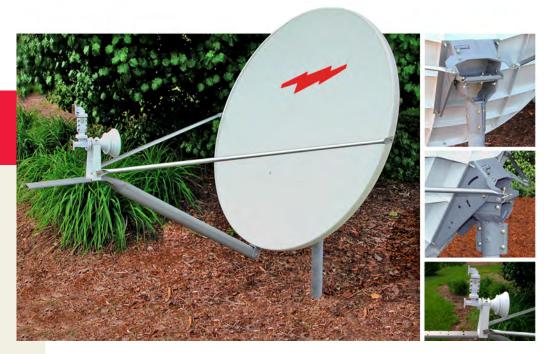
#### PRODUCT SPECIFICATIONS

# Detail Photos (on right from top to bottom) Pre-assembled Az/El Mount Fine-elevation adjustment with stamped degree scale RF tested Ku-Band feed assembly

Type approved for use on Intelsat and Eutelsat Satellite Systems







# 1.2 m RxTx Class II Antenna System

The Andrew Corporation Type 123
1.2 m Class II RxTx Antenna is a
rugged commercial grade product
suitable for the most demanding
applications. The reflector is thermosetmolded 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 the
critical parabolic shape necessary for
transmit performance. The reflector
optics feature a long focal length for
excellent cross-pol performance,
required by many satellite operators.

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 any 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 weatherrelated corrosion.

- One-piece precision offset thermosetmolded reflector.
- Long focal length optics for low cross-pol performance.
- Fine azimuth and elevation adjustments.
- Galvanized .75" (19 mm) O.D. side feed support legs and 2" (51 mm) O.D. lower feed support.
- Plated hardware for maximum corrosion resistance.
- Available with Ku-Band Co-Pol. or Cross-Pol. Feeds.
- Class II system designed for typical 2W and 4W Ku-Band Block Up-Converters (BUCs)\*
- \*12 lb or 5.4 kg max. weight for RF electronics (BUC and LNB)

### TYPE 123 1.2 m RxTx Class II Antenna System

#### Type Approval Information\*

 Antenna Model
 .62-12362-01

 Intelsat Standard
 .Standard G (IESS 601)

 Approval Code
 .IA077A00

 Antenna Model
 .62-12362-01

 Eutelsat Standard
 .VSAT

 Approval Code
 .EA-V051

#### **RF Performance**

Effective Aperture		1.2 m (48 in)
Operating Frequency	Tx	13.75-14.50 GHz
	Rx	10.70-12.75 GHz
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	Tx	
	Rx	
3 dB Beamwidth	Tx	1.2° @ 14.3 GHz
	Rx	1.5° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol	l dBi)	
		•
48° < θ < 180°		10
Antenna Cross-Polarization .		>30 dB in 1 dB Contour
Antenna Noise Temperature	10° El	45°K
	20° El	31°K
	30° El	24°K
VSWR	Tx	1.3:1
	Rx	1.5:1
Isolation, Port to Port	Tx	110 dB
,	Rx	
Feed Interface	Tx	
		WR75 Cover Flange (UBR120)

#### **Mechanical Performance**

Reflector Material	. Glass Fiber Reinforced Polyester
Antenna Optics	. One-Piece Offset Feed Prime Focus Long Focal Length
Mount Type	. Elevation over Azimuth
Elevation Adjustment Range	. 7°-84° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous; ±20° Fine Adjustment
Mast Pipe Interface	2.88 in - 3.00 in (73-76 mm) Diameter
Wind Loading Operational	50 mi/h (80 km/h) 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/ft²
Shock and Vibration	. As Encountered During Shipping and Handling

(All specifications typical)



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