

# PRODUCT SPECIFICATIONS

#### **Detail Photos**

(on right from top to bottom)

Heavy-duty galvanized Az/El Mount

Fine azimuth and elevation adjustments

RF tested Ku-Band feed assembly







# 1.8 m Ku-Band RxTx Class III Antenna System

Type 183

The Andrew Corporation Type 183

1.8 m Class III RxTx 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 the critical parabolic shape necessary for transmit performance.

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector and feed support arm. Heavy-duty lockdown bolts secure the mount to any 4.50" (114 mm) O.D. mast

and prevent slippage in high winds. Hot-dip galvanizing is standard for maximum environmental protection.

- One-piece precision offset thermoset-molded reflector.
- Fine azimuth and elevation adjustments.
- Galvanized feed support arms and alignment struts.
- Factory pre-assembled mount.
- Galvanized and stainless hardware for maximum corrosion resistance.
- Heavy-duty Class III mount for 25 lb (11 kg) RF electronics (LNB & BUC).

### TYPE 183 1.8 m Ku-Band RxTx Class III Antenna System

#### Type Approval Information\*

Intelsat Standard ......Standard G (IESS 601)

Approval Code ......IA027B00

#### **RF Performance**

Effective Aperture		1.8 m (71 in)
Operating Frequency	Rx	
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	Tx	
3 dB Beamwidth	Rx	
20° < θ < 26.3° 26.3° < θ < 48°	1)	3.5 32 - 25 Log θ
Antenna Cross-Polarization		30 dB (On Axis) 26 dB in .5 dB Contour
Antenna Noise Temperature	10° El	28°K
VSWR	Tx	
Isolation	Rx	
Feed Interface	Tx	

(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°-90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous; ± 10° Fine Adjustment
Feed Support	Rectangular Section with Alignment Legs
Mast Pipe Interface	4.50 in (114 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



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<sup>\*</sup>See our web site for a complete list of type approvals.