

# 1.2 Meter Ku-Band, Offset, TxRx High Wind Antenna (Series 2120)



*Your Trusted Source for Satellite Equipment*



P120HW

- **Ku-Band Operation**
- **Regulatory Compliance: FCC Compliant**
- **Chromated Aluminum & Galvanized Steel Mount finish**
- **3-Axis (El,Az,Pol) Mount Type Allows Multi-Feed Operation**



HIGH WIND\_P120HW\_KU\_OFF\_PR-2120\_REV003  
Specifications are subject to change without notice

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ELECTRICAL SPECIFICATIONS		Series 2120 Ku-Band
Antenna Size		1.2m (47.00")
Operating Frequency (GHz)	Receive Transmit	10.70 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain ( $\pm .2$ dB)	Receive Transmit	10.70 - 12.75 GHz 13.75 - 14.50 GHz
Antenna Noise Temperature	(20° Elevation) (30° Elevation)	57K 56K
Sidelobe Envelope 100 $\lambda$ / D° $\leq \theta \leq 20^\circ$ 20° < $\theta \leq 26.3^\circ$ 26.3° < $\theta \leq 48^\circ$ $\theta > 48^\circ$		29 - 25 Log $\theta$ dBi -3.5 dBi 32 - 25 Log $\theta$ dBi -10 dBi (averaged)
Cross-Pol On Axis Within BPE		Tx: 35 dB    Rx: 30 dB Tx: 27 dB    Rx: 25 dB
VSWR		Tx: 1.3:1 Max    Tx: 1.5:1 Max
MECHANICAL SPECIFICATIONS		
Reflector Material		Glass Fiber Reinforced Polyester SMC
Antenna Optics		Single Piece Offset, Prime Focus
Mast Pipe Size		2.50" Sch 40 Pipe (2.88" OD) 73.2 mm (72mm min., 74mm max.)
Elevation Adjustment Range		5°~90° Continuous Fine Adjustment
Azimuth Adjustment Range		360° Cont. Coarse Adj., $\pm 15^\circ$ Fine Adjust
Polarization Adjustment Range		$\pm 90^\circ$ Continuous Coarse Adjust
Maximum Transmitter Weight		12 lbs.
Feed Support Tailpiece		Available as needed
Shipping Specifications		90 lbs. (41 kg.)
ENVIRONMENTAL SPECIFICATIONS		
Wind Load Survival Operational		90 mph (144 km/h) - No Repoint Required 65 mph (104 km/h) - 0.5 dB Loss @ 14.25 GHz
Temperature Survival Operational		-50° to 160° F (-46° to 71° C) -40° to 140° F (-40° to 60° C)

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