

# 1.2M Ku-Band Tx/Rx, Series 1120



**P120KU**



*Your Trusted Source for Satellite Equipment*

- **Precision Compression Molded Reflector**
- **Tx/Rx Feed Assembly Included**
- **Universal or Non Penetrating Roof Mount Options Available**

Electrical		Series 1120 Ku-Band
Antenna Size		1.2 M (48 in.)
Operating Frequency (GHz)	Receive	10.95 - 12.75 GHz
	Transmit	13.75 - 14.50 GHz
Midband Gain ( +/- .5dB)	Receive	41.7 dBi
	Transmit	43.2 dBi
Antenna Noise Temperature	20° Elevation	46 K
	30° Elevation	43 K
Sidelobe Envelope, 100λ/D ≤ θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° 48° < θ		29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Max. Tx Weight		Tier 1 = 6 lbs. Tier 2 = 12 lbs.
Insertion Loss		0.2 dB max.
Cross-Pol Isolation (Linear)		>30 dB (on axis)
VSWR		1.3:1 Max.

Mechanical		
Reflector Material		Glass Fiber Reinforced Polyester SMC
Antenna Optics		Prime Focus, Offset Feed
Mount Type		Elevation over Azimuth
Mast Pipe Size		2" SCH 40 Pipe (2.38" OD) 6.03 cm
Elevation Adjustment Range		5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range		360° Continuous, Coarse
Shipping Specifications		60 lbs. (22.2 kg.)

Environmental Performance		
Wind Loading	Operational	40 mph (72 km/h)
	Survival	125 mph (201 km/h)
Temperature	Operational	-40° to 140° F (-40° to 60° C)
	Survival	-50° to 160° F (-46° to 71° C)
Rain	Operational	1/2"/hr
	Survival	2"/hr
Ice	Operational	-----
	Survival	1/2" radial
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation		360 BTU/h/ft2

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Specifications are subject to change without notice

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