

2.4 Meter Prodelin Tx Rx Antenna (Series 1241) - 4-Panel Reflector



P240KU
P240CL
P240CCI

VIKING
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Your Trusted Source for Satellite Equipment

Available with Ku and C band Feed Options
Precision Compression 4 Piece Molded Reflector
NPRM or Pedestal Mounts Available

Electrical		C-Band Linear	C-Band Circular	Ku-Band
Antenna Size		2.4M (96 in.)	2.4M (96 in.)	2.4M (96 in.)
Operating Frequency (GHz)	Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz	3.625 - 4.20 GHz 5.85 - 6.425 GHz	10.70 - 12.75 GHz 13.75 - 14.50 GHz
Antenna Gain at Midband, dBi (± .2dB)	Receive Transmit	38.20 dBi 42.20 dBi	38.00 dBi 42.00 dBi	47.40 dBi 49.20 dBi
VSWR		1.3:1 Max	1.3:1 Max	Rx: 1.5:1 Max Tx: 1.3:1 Max
Pattern Beamwidth (in degrees at midband)	-3 dB -15 dB	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 0.70° Tx: 0.60° Rx: 1.60° Tx: 1.40°
Sidelobe Envelope, Co-Pol (dBi) 100λ / D < θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° θ > 48°		29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Antenna Noise Temperature 10° Elevation 20° Elevation 30° Elevation 40° Elevation		52 K 46 K 45 K 44 K	57 K 49 K 45 K 45 K	85 K 78 K 73 K 70 K
Cross Polarization Isolation (Linear) On Axis	Receive Transmit	>30 dB >30 dB	N/A N/A	>30 dB >35 dB
Axial Ratio (Circular)	Receive Transmit	N/A N/A	2.28 dB 1.94 dB	N/A N/A
Feed Interface	Receive Transmit	CPR 229F CPR 137 or Type N	CPR 229F CPR 137 or Type N	WR 75 or Direct Radio Mounting
Maximum Radio Weight <i>(Optional Feed Stabilizer available for higher radio weight)</i>		20 Lbs. (9 Kg.)	20 Lbs. (9 Kg.)	12 Lbs. (5.5 Kg.)

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Prime Focus, Offset Feed, Four-piece
Mast Pipe Size	6" SCH 40 Pipe (6.63" OD) 16.83 cm.
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous, +/- 10° Fine Adjustment
Mount Type	Elevation over Azimuth
Shipping Specifications Shipping Weight (Total): Install (Net) Weight:	545 lbs. (248 kg.) 365 lbs. (166 kg.)

Environmental Performance	
Wind Loading	Operational Survival
Temperature Range (operational)	-40° to 140°F (-40° to 60°C)
Rain (operational)	1/2" (13mm) / hr
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Relative Humidity	0 to 100% With Condensation
Solar Radiation	360 BTU/h/ft²

TX-RX_P240KU-CL-CCI_PR-1241_REV002
Specifications are subject to change without notice

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