

2.4m Ka-Band Receive Only Antenna Series 3244



Your Trusted Source for Satellite Equipment

P240KA-RO

Electrical		Ka-Band Circular	Ka-Band Linear
Antenna Size		2.4m	2.4m
Operating Frequency (GHz)	Receive	19.20 - 20.20GHz	18.20 - 21.20GHz
Midband Gain (± 2 dB)	Receive	51.30dBi	51.30dBi
VSWR		1.3:1 Max	1.5:1 Max
Pattern Beamwidth (In Degrees at Midband)	-3dB -15dB	0.40° 1.00°	0.40° 1.00°
Sidelobe Envelope, Co-Pol (dBi) 100 λ /D < $\theta \leq 20^\circ$ 20° < $\theta \leq 26.3^\circ$ 26.3° < $\theta \leq 48^\circ$ $\theta > 48^\circ$		29 - 25Log θ dBi -3.5dBi 32 - 25Log θ dBi -10dBi (Averaged)	29 - 25Log θ dBi -3.5dBi 32 - 25Log θ dBi -10dBi (Averaged)
Antenna Noise Temperature 5° Elevation 10° Elevation 20° Elevation 40° Elevation		141K 115K 95K 84K	145K 117K 90K 87K
Power Handling		N/A	N/A
Cross Polarization Isolation On Axis Within 1.0dB Beamwidth		17.70dB 17.70dB	30.00dB 26.00dB
Output Waveguide Interface Flange		WR42	WR42

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC, Ka Band Formulation
Antenna Optics	4 Piece Offset, Prime Focus
Mast Pipe Size	6.0" SCH 80 Pipe (6.62" OD) 16.8cm
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous Coarse Adjustment, $\pm 45^\circ$ Fine Adjustment
Shipping Specifications	Approx. Net Weight: 545lbs. (248kg.) Approx. Packaged Weight: 885lbs. (402kg.)

Environmental Performance	
Wind Loading Operational Survival	50mph (80km/h) 125mph (201 km/h)
Temperature (Operational)	-40° to 140°F (-40° to 60°C)
Rain (Operational)	½"/hr.
Ice (Operational)	-----
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/ft ²

KA-BAND_P240KA_RO_REV002
Specifications are subject to change without notice

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