

X-Band Prime Focus Antennas



Your Trusted Source for
Satellite Equipment

P120XC / P180XC / P240XC

Electrical		Series 1134 X-Band	Series 1194 X-Band	Series 1244 X-Band
Antenna Size		1.2 M	1.8 M	2.4 M
Operating Frequency (GHz)				
Receive		7.25 - 7.75 GHz	7.25 - 7.75 GHz	7.25 - 7.75 GHz
Transmit		7.90 - 8.40 GHz	7.90 - 8.40 GHz	7.90 - 8.40 GHz
Midband Gain (+/- .5dB)		37.4 dBi 38.1 dBi	40.9 dBi 41.6 dBi	43.7 dBi 44.4 dBi
Sidelobe Compliant		DSCS Req.	DSCS Req.	DSCS Req.
Axial Ratio*		1.0 dB	1.0 dB	1.0 dB
VSWR		1.25:1 Max.	1.25:1 Max.	1.25:1 Max.
Antenna Noise Temp (Clear Sky)				
10°		50 K	43 K	38 K
20°		45 K	38 K	33 K
30°		42 K	35 K	29 K
Port to Port Isolation		20dB	20dB	20dB
Mechanical		Series 1134 X-Band	Series 1194 X-Band	Series 1244 X-Band
Reflector Material		Glass fiber reinforced polyester SMC		
Antenna Optics		One piece, offset feed, prime focus		Four piece, offset feed, prime focus
Mount Type		Elevation over azimuth		
Elevation Adjustment Range		5° to 90°, continuous fine adjustment		12° to 90°, (0° to 15° Inverted)
Azimuth Adjustment Range		360° continuous, +30° fine adjustment		
Mast Pipe Size		2.5" SCH 40 pipe (2.88" OD)	5" SCH 40 pipe (5.6" OD)	6" SCH 40 Pipe (6.62" OD)
Environmental Performance		Series 1134 X-Band	Series 1194 X-Band	Series 1244 X-Band
Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)		
Temperature	Operational Survival	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)		
Rain	Operational Survival	1/2"/hr 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		

* Antenna only - No filters or other components

X-BAND_120-180-240_PF_REV003
Specifications are subject to change without notice

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