

3.8 Meter Prime Focus, TxRx High Wind Antenna



Your Trusted Source for Satellite Equipment

P380HW

Electrical		C-Band Linear	C-Band Circular	Ku-Band
Antenna Size		3.8 M	3.8 M	3.8 M
Operating Frequency (GHz)	Receive	3.625 - 4.20 GHz	3.625 - 4.20 GHz	10.95 - 12.75 GHz
	Transmit	5.845 - 6.725 GHz	5.845 - 6.425 GHz	13.75 - 14.50 GHz
Midband Gain (+/- .2dB)	Receive	41.80 dBi	42.10 dBi	51.70 dBi
	Transmit	46.20 dBi	46.00 dBi	53.20 dBi
Antenna Noise Temperature				
10° Elevation		31 K	28 K	29 K
20° Elevation		25 K	22 K	21 K
30° Elevation		23 K	20 K	20 K
40° Elevation		22 K	19 K	19 K
Sidelobe Envelope, Co-Pol (dBi)				
1° ≤ θ ≤ 20°		29 - 25 Logθ dBi	29 - 25 Logθ dBi	29 - 25 Logθ dBi
20° < θ ≤ 26.3°		-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° < θ ≤ 48°		32 - 25 Logθ dBi	32 - 25 Logθ dBi	32 - 25 Logθ dBi
48° < θ		-10 dBi (averaged)	-10 dBi (averaged)	-10 dBi (averaged)
Polarization		Linear	Circular	Linear
Feed Interface	Receive	CPR 229 F	CPR 229 F	WR 75 or Direct Radio
	Transmit	CPR 137 or Type N	CPR 137 or Type N	Mounting
Axial Ratio (Circular)	Receive	N/A	1.3 / 1.3 VAR (2.28 dB)	N/A
	Transmit	N/A	1.3 / 1.09 VAR (.75 dB)	N/A
Cross-Pol Isolation		>30 dB (on axis)	>30 dB (on axis)	>30 dB (on axis)
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		4 Piece Prime Focus, Offset Feed		
Mast Pipe Size		10" SCH 80 Pipe (10.75" OD) 27.30 cm.		
Elevation Adjustment Range		12° to 90° (0° to 15° Inverted)		
Azimuth Adjustment Range		360° Continuous, + 36° Fine Adjustment		
Shipping Specifications		2100 lbs. (955 kg.)		
Environmental Performance				
Wind Loading	Operational	65 MPH (104 Km/H) with 0.5 dB loss @ 14.25 GHz 75 MPH (120 Km/H) with 0.5 dB loss @ 6.14 GHz 75 MPH (120 Km/H) with 1.0 dB loss @ 14.25 GHz		
	Survival	150 MPH (240 Km/H)		
Temperature	Operational	-40° to 140° F (-40° to 60° C)		
	Survival	-50° to 160° F (-48° to 71° C)		
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas		
Solar Radistion		360 BTU/h/ft ²		

HIGH WIND_P380HW_KU-CC-CL_PF-4_REV002
Specifications are subject to change without notice

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