

1800

iNetVu™

Simply communicate

TECHNICAL SPECIFICATIONS



Electrical

Ku-Band (Linear)

Feed Horn LNB & Tx Cable	2 RG6 cables for Tx & Rx (30'/each)	
Transmit Power	1 to 25 Watt	
Transmit (Tx) Frequency	13.75 - 14.50 GHz	
Receive (Rx) Frequency	10.70 - 12.75 GHz	
Feed Interface	<u>Receive</u> WR75	<u>Transmit</u> WR75
Midband Gain (+.2dB)		
Rx	45.0 / 45.3 dBi	
Tx	47.0 dBi	
Antenna Noise Temperature		
10° Elevation	55 K	
30° Elevation	50 K	
Sidelobe Envelope, Co-Pol (dBi)		
	<u>Receive</u>	<u>Transmit</u>
	1° < θ < 20°	29 - 25 Log θ dBi
	20° < θ < 26.3°	-3.5 dBi
	26.3° < θ < 48°	32-35 Log θ dBi
	48° < θ	-10 dBi (averaged)
Cross-Polarization	<u>Receive</u>	<u>Transmit</u>
On Axis	30 dB	
Within 1 dB Beamwidth	22 dB	

X-Band (Circular)

Transmit (Tx) Frequency	7.9 - 8.4 GHz	
Receive (Rx) Frequency	7.25 - 7.75 GHz	
Feed Interface	<u>Receive</u> WR112	<u>Transmit</u> WR112
Midband Gain (+.2dB)		
Rx	41.5 dBi	
Tx	42.2 dBi	
Antenna Noise Temperature		
10° Elevation	38 K	
30° Elevation	35 K	
Sidelobe Envelope, Co-Pol (dBi)		
	<u>Receive</u>	<u>Transmit</u>
	1° < θ < 20°	29 - 25 Log θ dBi
	20° < θ < 26.3°	-3.5 dBi
	26.3° < θ < 48°	32 - 35 Log θ dBi
	48° < θ	-10 dBi (averaged)
Cross-Polarization	<u>Receive</u>	<u>Transmit</u>
On Axis	23 dB	
Within 1 dB Beamwidth	23 dB	

C-Band (Linear)

Transmit (Tx) Frequency	5.700 - 6.725 GHz	
Receive (Rx) Frequency	3.4 - 4.2 GHz	
Feed Interface	<u>Receive</u> WR229	<u>Transmit</u> WR137
Midband Gain (+.2dB)		
Rx	36.0 dBi	
Tx	39.8 dBi	
Antenna Noise Temperature		
10° Elevation	55 K	
30° Elevation	50 K	
Sidelobe Envelope, Co-Pol (dBi)		
	<u>Receive</u>	
	29 - 25 log θ	
	-3.5 dBi	
	32 - 35 log θ	
	-10 dBi (averaged)	
Cross-Polarization	<u>Receive</u>	<u>Transmit</u>
On Axis	30 dB	
Within 1 dB Beamwidth	22 dB	

C-Band (Circular)

Transmit (Tx) Frequency	5.850 - 6.425 GHz	
Receive (Rx) Frequency	3.625 - 4.200 GHz	
Feed Interface	<u>Receive</u> WR229	<u>Transmit</u> WR137
Midband Gain (+.2dB)		
Rx	35.6 dBi	
Tx	39.5 dBi	
Antenna Noise Temperature		
10° Elevation	65 K	
30° Elevation	60 K	
Sidelobe Envelope, Co-Pol (dBi)		
		<u>Transmit</u>
		1° < θ < 20°
		20° < θ < 26.3°
		26.3° < θ < 48°
		48° < θ
Cross-Polarization	<u>Receive</u>	<u>Transmit</u>
On Axis	15.3 dB	
Within 1 dB Beamwidth	15.3 dB	