

RF-4LPNC-9-A

4 Port Transmit/Receive Linear Polarized C-Band Feed 9.3m Antenna

Operating Frequency	Receive	Transmit	Unit
	3.625 - 4.2	5.85 - 6.425	GHz
Gain⁽¹⁾ (+/-0.2 dB)			
3.625 GHz	49.4	-	dBi
4.0 GHz	50.3	-	dBi
4.2 GHz	50.7	-	dBi
5.85 GHz	-	53.3	dBi
6.175 GHz	-	53.8	dBi
6.425 GHz	-	54.1	dBi
VSWR/Return Loss			
	1.3:1 / 17.7	1.3:1 / 17.7	ratio / dB
Pattern Beamwidth (midband)			
3 dB Beamwidth	0.51	0.34	deg
10 dB Beamwidth	0.85	0.56	deg
Noise Temperature ⁽²⁾			
5° Elevation	49	-	K
10° Elevation	36	-	K
20° Elevation	30	-	K
30° Elevation	26	-	K
40° Elevation	25	-	K
50° Elevation	24	-	K
G/T⁽³⁾ (30K LNA)			
5° Elevation	30.5	-	dB/K
10° Elevation	31.1	-	dB/K
20° Elevation	31.4	-	dB/K
30° Elevation	31.7	-	dB/K
40° Elevation	31.7	-	dB/K
50° Elevation	31.8	-	dB/K

Polarization Isolation			
On Axis	35	35	dB
Within 1.0 dB Beamwidth	35	35	dB

Port to Port Isolation			
Tx to Tx	-	40	dB
Rx to Rx	40	-	dB
Tx to Rx	-	85	dB
Rx to Tx	50	-	dB



Power Handling (TOTAL)	-	5000	W
Flange Type	CPR229G	CPR137G	
Flange Material	Brass	Brass	

Notes:

1. All performance values are referenced to rear output feed flange.
2. Midband, 20°C, Clear sky conditions, <7.5 g/m3 water vapor, +/-5K.
3. G/T shown for mid-band and is typical for single thread LNA connected directly to the feed flange and does not include post LNA contributions.
4. Antenna pattern sidelobes are compliant to ITU-R S.580-6 and ITU-R S.465-5 recommendations, 10% of sidelobes may exceed the specification where applicable.

RF SPECIFICATIONS