

	Units	Forward Pipe		All Pipe	
		Rain	Clear	Rain	Clear
Elevation Angle	deg.	43.6	43.6	43.6	43.6
Slant Range	km	37511	37511	37511	37511
Uplink Availability	%	99.99		99.97	
Required GS EIRP	dBW	89.34	80.69	91.27	85.19
Available GS EIRP	dBW	92.70	92.70	92.70	92.70
EIRP Margin	dB	3.36	12.01	1.43	7.51
Free Space loss	dB	-213.32	-213.32	-213.32	-213.32
Gaseous Att	dB	-0.44	-0.37	-0.44	-0.37
Cloud Att	dB	-0.79		-0.79	
Rain Fade	dB	-10.29		-7.73	
Total Atmospheric loss	dB	-11.52	-0.37	-8.95	-0.37
Rain Fade		-11.15		-8.58	
Min Rx Isotropic Power (RIP)	dBW	-135.50	-133.00	-131.00	-128.50
Max Rx Isotropic Power (RIP)	dBW	-130.50		-126.00	
Polarization Loss	dB	-0.22	-0.22	-0.22	-0.22
Rec Ant Gain	dB	5.00	5.00	5.00	5.00
Pointing Loss	dB	0.00	0.00	0.00	0.00
Min Rec Signal Level	dBW	-130.72	-128.22	-126.22	-123.72
S/C NF including CR	dB	11.06	11.06	15.74	15.74
S/C Gain up to CR	dB	-8.06	-8.06	-12.74	-12.74
Antenna Temperature	K	290.00	290.00	290.00	290.00
System Noise Temp	dBK	35.69	35.69	40.37	40.37
Noise Power Density No	dBW/Hz	-192.91	-192.91	-188.23	-188.23
Io On-Station	dBW/Hz	-237.67	-237.67	-237.67	-237.67
Total No+Io	dBW/Hz	-192.91	-192.91	-188.23	-188.23
C/No	dB-Hz	62.19	64.69	62.01	64.51
C/(No+Io)	dB-Hz	62.19	64.69	62.01	64.51
Required C/(No+Io)	dB-Hz	61.00	61.00	61.00	61.00
Margin	dB	1.19	3.69	1.01	3.51