

General:	Units	Clear Sky	Faded
Emission Designator		250MG7W	250MG7W
Data Rate	Mbit/s	533	533
Modulation		16-APSK	16-APSK
Coding Rate		0.6642	0.6642
Carrier Bandwidth	MHz	250	250
Uplink Frequency	GHz	48.075	48.075
Downlink Frequency	GHz	40.875	40.875
Uplink:			
Tx E/S Antenna Diameter	m	3.5	3.5
Tx E/S Power to Antenna	W	20.0	200.0
Tx E/S Antenna Gain	dBi	63.0	63.0
Tx E/S EIRP per Carrier	dBW	76.1	86.1
Tx E/S Antenna Pointing Loss	dB	1	1
Atmospheric and Rain Losses	dB	1.6	11.6
Free Space Loss	dB	217.9	217.9
G/T (-2dB contour)	dB/K	20	20
C/I - Intra-system	dB	25.0	25.0
Downlink:			
EIRP per Carrier towards Rx E/S (-3dB)	dBW	67	67
Atmospheric and Rain Losses	dB	0.6	6.7
Free Space Loss	dB	216.4	216.4
Rx E/S Antenna Pointing Loss	dB	0.5	0.5
Rx E/S Antenna Diameter	m	0.74	0.74
Rx E/S Antenna Gain	dBi	48.1	48.1
Rx E/S G/T	dB/K	24.6	21.8
System Noise Temp (LNA+Sky)	K	225	434
C/I - Intra-system	dB	20.1	20.1
End-to-End:			
C/N - Thermal Uplink	dB	21.0	21.0
C/I Up - ASI	dB	22.8	22.8
C/N - Thermal Downlink	dB	19.5	10.6
C/I Down - ASI	dB	23.6	23.6
C/(N+I) - Total Actual	dB	13.8	9.3
C/N - Required	dB	9.3	9.3
Excess Margin	dB	4.5	0.0