

General:	Units	Clear Sky
Emission Designator		500MG7D
Carrier Bandwidth	MHz	500
Uplink Frequency	GHz	28.85
Downlink Frequency	GHz	19.05
Uplink:		
Tx E/S Antenna Diameter	m	7.3
Tx E/S Power to Antenna	W	10.0
Tx E/S Antenna Gain	dBi	65.0
Tx E/S EIRP per Carrier	dBW	75.0
Tx E/S Antenna Pointing Loss	dB	1.2
Atmospheric and Rain Losses	dB	0.5
Free Space Loss	dB	213.6
G/T (peak)	dB/K	16.1
C/I - Intra-system	dB	25.5
Downlink:		
EIRP per Carrier towards Rx E/S	dBW	67.9
Atmospheric and Rain Losses	dB	0.4
Free Space Loss	dB	210.1
Rx E/S Antenna Pointing Loss	dB	0.5
Rx E/S Antenna Diameter	m	1.8
Rx E/S Antenna Gain	dBi	49.3
Rx E/S G/T	dB/K	25.5
System Noise Temp (LNA+Sky)	K	235
C/I - Intra-system	dB	18.7
End-to-End:		
C/N - Thermal Uplink	dB	18.2
C/I Up - ASI	dB	18.9
C/N - Thermal Downlink	dB	24.9
C/I Down - ASI	dB	25.3
C/(N+I) - Total Actual	dB	13.0
C/N - Required	dB	10.3
Excess Margin	dB	2.7