

General:	Units	Clear Sky	Faded
Emission Designator		25M0G7D	25M0G7D
Data Rate	kbit/s	50000.0	50000.0
Modulation		8-PSK	8-PSK
Coding Rate		0.8333	0.8333
Carrier Bandwidth	kHz	25000	25000
Uplink Frequency	GHz	28.2	28.2
Downlink Frequency	GHz	18.4	18.4
Uplink:			
Tx E/S Antenna Diameter	m	7.3	7.3
Tx E/S Power to Antenna	W	9.3	33.0
Tx E/S Antenna Gain	dBi	64.5	64.5
Tx E/S EIRP per Carrier	dBW	74.2	79.7
Tx E/S Antenna Pointing Loss	dB	1.2	1.2
Atmospheric and Rain Losses	dB	0.5	6.0
Free Space Loss	dB	213.1	213.1
G/T toward Tx E/S	dB/K	20.5	20.5
C/I - Intra-system	dB	17.3	17.3
Downlink:			
EIRP per Carrier towards Rx E/S	dBW	45.2	39.7
Atmospheric and Rain Losses	dB	0.5	6.0
Free Space Loss	dB	209.3	209.3
Rx E/S Antenna Pointing Loss	dB	0.6	0.6
Rx E/S Antenna Diameter	m	7.3	7.3
Rx E/S Antenna Gain	dBi	60.8	60.8
Rx E/S G/T	dB/K	36.8	34.2
System Noise Temp (LNA+Sky)	K	250	455
C/I - Intra-system	dB	17.3	17.3
End-to-End:			
C/N - Thermal Uplink	dB	35.5	35.5
C/I Up - ASI	dB	31.6	31.6
C/N - Thermal Downlink	dB	27.3	13.6
C/I Down - ASI	dB	27.9	27.9
C/(N+I) - Total Actual	dB	13.8	10.8
C/N - Required	dB	10.8	10.8
Excess Margin	dB	3.0	0.0