

General:	Units	Clear Sky	Faded
Emission Designator		25M0G7D	25M0G7D
Data Rate	Mbit/s	38.9	38.9
Modulation		8-PSK	8-PSK
Coding Rate		0.7470	0.7470
Carrier Bandwidth	MHz	25	25
Uplink Frequency	GHz	28.85	28.85
Downlink Frequency	GHz	19.05	19.05
Elevation Angle	degrees	35	35
Elevation Angle	degrees	35	35
Uplink:			
Tx E/S Antenna Diameter	m	7.3	7.3
Tx E/S Power to Antenna	W	4.2	41.7
Tx E/S Antenna Gain	dBi	65.0	65.0
Tx E/S EIRP per Carrier	dBW	71.2	81.2
Tx E/S Antenna Pointing Loss	dB	1.2	1.2
Atmospheric and Rain Losses	dB	0.5	10.5
Free Space Loss	dB	213.3	213.3
G/T toward Tx E/S (-3 dB)	dB/K	3.5	3.5
C/I - Intra-system	dB	30.0	30.0
Downlink:			
EIRP per Carrier towards Rx E/S (-3 dB)	dBW	35.5	35.5
Atmospheric and Rain Losses	dB	0.4	4.7
Free Space Loss	dB	209.7	209.7
Rx E/S Antenna Pointing Loss	dB	0.8	0.8
Rx E/S Antenna Diameter	m	7.3	7.3
Rx E/S Antenna Gain	dBi	61.4	61.4
Rx E/S G/T	dB/K	38.2	35.5
System Noise Temp (LNA+Sky)	K	210	386
C/I - Intra-system	dB	26.0	26.0
End-to-End:			
C/N - Thermal Uplink	dB	15.1	15.1
C/I Up - ASI	dB	28.4	28.4
C/N - Thermal Downlink	dB	18.1	11.2
C/I Down - ASI	dB	14.8	14.8
C/(N+I) - Total Actual	dB	10.7	8.4
C/N - Required	dB	8.4	8.4
Excess Margin	dB	2.3	0.0