

<b>General:</b>	<b>Units</b>	<b>Clear Sky</b>	<b>Faded</b>
Emission Designator		6M25G7D	6M25G7D
Data Rate	kbit/s	8750.0	8750.0
Modulation		8-PSK	8-PSK
Coding Rate		0.5833	0.5833
Carrier Bandwidth	kHz	6250	6250
Uplink Frequency	GHz	29.75	29.75
Downlink Frequency	GHz	19.95	19.95
<b>Uplink:</b>			
Tx E/S Antenna Diameter	m	0.67	0.67
Tx E/S Power to Antenna	W	2.8	2.8
Tx E/S Antenna Gain	dBi	44.4	44.4
Tx E/S EIRP per Carrier	dBW	48.9	48.9
Tx E/S Antenna Pointing Loss	dB	0.5	0.5
Atmospheric and Rain Losses	dB	0.5	2.6
Free Space Loss	dB	213.6	213.6
G/T toward Tx E/S	dB/K	18.5	18.5
C/I - Intra-system	dB	15.3	15.3
<b>Downlink:</b>			
EIRP per Carrier towards Rx E/S	dBW	39.2	37.1
Atmospheric and Rain Losses	dB	0.5	4.2
Free Space Loss	dB	209.9	209.9
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	61.5	61.5
Rx E/S G/T	dB/K	38.0	35.3
System Noise Temp (LNA+Sky)	K	250	415
C/I - Intra-system	dB	13.3	13.3
<b>End-to-End:</b>			
C/N - Thermal Uplink	dB	14.4	12.3
C/I Up - ASI	dB	12.5	10.4
C/N - Thermal Downlink	dB	27.8	19.3
C/I Down - ASI	dB	28.0	28.0
C/(N+I) - Total Actual	dB	7.6	6.2
C/N - Required	dB	6.2	6.2
Excess Margin	dB	1.4	0.0