

General:	Units	Clear Sky
Emission Designator		3M13G7D
Carrier Bandwidth	kHz	3125
Uplink Frequency	GHz	28.85
Downlink Frequency	GHz	19.05
Uplink:		
Tx E/S Antenna Diameter	m	0.67
Tx E/S Power to Antenna	W	2.8
Tx E/S Antenna Gain	dBi	44.3
Tx E/S EIRP per Carrier	dBW	48.8
Tx E/S Antenna Pointing Loss	dB	0.5
Atmospheric and Rain Losses	dB	0.5
Free Space Loss	dB	213.6
G/T toward Tx E/S	dB/K	19.5
C/I - Intra-system	dB	14.3
Downlink:		
EIRP per Carrier towards Rx E/S	dBW	45.9
Atmospheric and Rain Losses	dB	0.5
Free Space Loss	dB	209.9
Rx E/S Antenna Pointing Loss	dB	0.55
Rx E/S Antenna Diameter	m	7.3
Rx E/S Antenna Gain	dBi	61.4
Rx E/S G/T	dB/K	38.0
System Noise Temp (LNA+Sky)	K	250
C/I - Intra-system	dB	13.3
End-to-End:		
C/N - Thermal Uplink	dB	18.3
C/I Up - ASI	dB	15.4
C/N - Thermal Downlink	dB	37.6
C/I Down - ASI	dB	37.6
C/(N+I) - Total Actual	dB	8.9
C/N - Required	dB	4.9
Excess Margin	dB	4.1