

General:	Units	Clear Sky
Emission Designator		3M88G7D
Carrier Bandwidth	kHz	3874
Uplink Frequency	GHz	28.85
Downlink Frequency	GHz	19.05
Uplink:		
Tx E/S Antenna Diameter	m	0.3
Tx E/S Power to Antenna	W	1.8
Tx E/S Antenna Gain	dBi	37.3
Tx E/S EIRP per Carrier	dBW	39.9
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	46.8
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	8.5
C/I Up - ASI	dB	5.6
C/N - Thermal Downlink	dB	37.6
C/I Down - ASI	dB	37.6
C/(N+I) - Total Actual	dB	3.0
C/N - Required	dB	-0.9
Excess Margin	dB	3.9