Link Parameters	Units	1M64G7W
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
Carrier bandwidth	kHz	1640.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	58.5
Earth station diameter	m	4.5
Earth station gain	dBi	54.5
Uplink input power per carrier	dBW	4.0
Atmospheric loss	dB	0.3
Free space path loss	dB	207.0
G/T satellite (-3dB contour)	dB/K	5.0
C/N thermal uplink	dB	22.6
C/I XPOL, ACI, IM, ASI	dB	19.8
C/(N+I) uplink	dB	18.0
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	34.3
Atmospheric loss	dB	0.2
Free space path loss	dB	205.1
Earth station diameter	m	3.0
Earth station gain	dBi	49.0
Noise temperature	K	125.0
Earth station G/T	dB/K	28.0
C/N thermal downlink	dB	23.5
C/I XPOL, ACI, IM, ASI	dB	20.2
C/(N+I) downlink	dB	17.0
Overall:		
C/(N+I) overall	dB	14.5
C/(N+I) required	dB	8.5
System Margin	dB	6.0