Link Parameters	Units	17M9G7W
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
Carrier bandwidth	kHz	17900.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	70.6
Earth station diameter	m	7.0
Earth station gain	dBi	58.3
Uplink input power per carrier	dBW	12.3
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	24.4
C/I XPOL, ACI, IM, ASI	dB	21.5
C/(N+I) uplink	dB	19.7
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	45.5
Atmospheric loss	dB	0.2
Free space path loss	dB	205.1
Earth station diameter	m	6.0
Earth station gain	dBi	55.0
Noise temperature	K	175.0
Earth station G/T	dB/K	32.6
C/N thermal downlink	dB	28.9
C/I XPOL, ACI, IM, ASI	dB	24.3
C/(N+I) downlink	dB	21.1
Overall:		
C/(N+I) overall	dB	17.3
C/(N+I) required	dB	12.4
System Margin	dB	4.9