

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.96
User data rate	kbit/s	41505
Modulation		QPSK
Total coding rate		0.691
Carrier bandwidth	kHz	36000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	74.4
Earth station diameter	m	7.0
Earth station gain	dBi	51.3
Uplink input power per carrier	dBW	23.1
Uplink input power density	dBW/Hz	-52.4
Atmospheric loss	dB	0.1
Free space path loss	dB	200.0
G/T satellite (-3 dB contour)	dB/K	-1.7
C/N thermal uplink	dB	25.7
C/I XPOL, ACI, ASI	dB	22.4
C/(N+I) uplink	dB	20.7
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	39.7
Atmospheric loss	dB	0.1
Free space path loss	dB	196.1
Earth station diameter	m	3.7
Earth station gain	dBi	41.9
Noise temperature	K	100.0
Earth station G/T	dB/K	21.9
C/N thermal downlink	dB	18.4
C/I XPOL, ACI, IM, ASI	dB	16.7
C/(N+I) downlink	dB	12.4
Overall:		
C/(N+I) overall	dB	11.8
C/(N+I) required	dB	5.7
Margin	dB	6.1