

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	6.88
Downlink frequency	GHz	4.65
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	84.9
Earth station diameter	m	6.1
Earth station gain	dBi	51.0
Uplink input power per carrier	dBW	33.9
Uplink input power density	dBW/Hz	-41.7
Atmospheric loss	dB	0.1
Free space path loss	dB	200.9
G/T satellite (-3 dB contour)	dB/K	-5.0
C/N thermal uplink	dB	31.9
C/I XPOL, ACI, ASI	dB	21.7
C/(N+I) uplink	dB	21.3
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	40.4
Atmospheric loss	dB	0.1
Free space path loss	dB	197.5
Earth station diameter	m	3.7
Earth station gain	dBi	43.3
Noise temperature	K	100.0
Earth station G/T	dB/K	23.3
C/N thermal downlink	dB	19.1
C/I XPOL, ACI, IM, ASI	dB	14.2
C/(N+I) downlink	dB	10.6
Overall:		
C/(N+I) overall	dB	10.2
C/(N+I) required	dB	5.7
Margin	dB	4.5