

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
User data rate	kbit/s	76502
Modulation		8PSK
Total coding rate		0.841
Carrier bandwidth	kHz	36000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	74.7
Earth station diameter	m	6.1
Earth station gain	dBi	50.1
Uplink input power per carrier	dBW	24.6
Uplink input power density	dBW/Hz	-50.9
Atmospheric loss	dB	0.1
Free space path loss	dB	200.0
G/T satellite (-3 dB contour)	dB/K	-5.0
C/N thermal uplink	dB	22.7
C/I XPOL, ACI, ASI	dB	14.0
C/(N+I) uplink	dB	13.5
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	40.4
Atmospheric loss	dB	0.1
Free space path loss	dB	196.1
Earth station diameter	m	4.5
Earth station gain	dBi	43.6
Noise temperature	K	100.0
Earth station G/T	dB/K	23.6
C/N thermal downlink	dB	20.8
C/I XPOL, ACI, IM, ASI	dB	14.5
C/(N+I) downlink	dB	11.0
Overall:		
C/(N+I) overall	dB	9.1
C/(N+I) required	dB	6.5
Margin	dB	2.6