

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	14.40
Downlink frequency	GHz	12.10
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	4.5
Earth station gain	dBi	54.8
Uplink input power per carrier	dBW	19.6
Uplink input power density	dBW/Hz	-56.0
Atmospheric loss	dB	0.2
Free space path loss	dB	207.3
G/T satellite (-3 dB contour)	dB/K	1.6
C/N thermal uplink	dB	21.5
C/I XPOL, ACI, ASI	dB	25.2
C/(N+I) uplink	dB	19.9
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	47.2
Atmospheric loss	dB	0.1
Free space path loss	dB	205.8
Earth station diameter	m	1.5
Earth station gain	dBi	43.7
Noise temperature	K	120.0
Earth station G/T	dB/K	22.9
C/N thermal downlink	dB	17.2
C/I XPOL, ACI, IM, ASI	dB	13.9
C/(N+I) downlink	dB	10.0
Overall:		
C/(N+I) overall	dB	9.6
C/(N+I) required	dB	5.7
Margin	dB	3.9