

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
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	81.8
Earth station diameter	m	6.1
Earth station gain	dBi	57.3
Uplink input power per carrier	dBW	24.5
Uplink input power density	dBW/Hz	-51.1
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	31.7
C/I XPOL, ACI, ASI	dB	23.7
C/(N+I) uplink	dB	23.1
Downlink:		
Satellite e.i.r.p. per carrier	dBW	49.5
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	1.2
Earth station gain	dBi	41.7
Noise temperature	K	120.0
Earth station G/T	dB/K	20.9
C/N thermal downlink	dB	17.6
C/I XPOL, ACI, IM, ASI	dB	12.0
C/(N+I) downlink	dB	8.4
Overall:		
C/(N+I) overall	dB	8.3
C/(N+I) required	dB	5.7
Margin	dB	2.6