

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	13.89
Downlink frequency	GHz	11.60
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	76.8
Earth station diameter	m	6.1
Earth station gain	dBi	57.1
Uplink input power per carrier	dBW	19.7
Uplink input power density	dBW/Hz	-55.9
Atmospheric loss	dB	0.2
Free space path loss	dB	207.0
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	26.9
C/I XPOL, ACI, ASI	dB	21.3
C/(N+I) uplink	dB	20.2
Downlink:		
Satellite e.i.r.p. per carrier	dBW	49.5
Atmospheric loss	dB	0.1
Free space path loss	dB	205.4
Earth station diameter	m	1.5
Earth station gain	dBi	43.4
Noise temperature	K	120.0
Earth station G/T	dB/K	22.6
C/N thermal downlink	dB	19.6
C/I XPOL, ACI, IM, ASI	dB	15.1
C/(N+I) downlink	dB	11.4
Overall:		
C/(N+I) overall	dB	10.9
C/(N+I) required	dB	5.7
Margin	dB	5.2