

<b>Link Parameters</b>	<b>Units</b>	<b>36M0G7W</b>
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
User data rate	kbit/s	50400.0
Modulation		QPSK
Total coding rate		0.841
Carrier bandwidth	kHz	36000.0
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	76.0
Earth station diameter	m	9.0
Earth station gain	dB <sub>i</sub>	53.5
Uplink input power per carrier	dBW	22.5
Uplink input power density	dBW/Hz	-53.0
Atmospheric loss	dB	0.1
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	1.2
C/N thermal uplink	dB	30.2
C/I XPOL, ACI, IM, ASI	dB	21.6
C/(N+I) uplink	dB	21.0
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	39.5
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	3.7
Earth station gain	dB <sub>i</sub>	42.0
Noise temperature	K	90.0
Earth station G/T	dB/K	22.4
C/N thermal downlink	dB	18.6
C/I XPOL, ACI, IM, ASI	dB	14.2
C/(N+I) downlink	dB	10.5
<b>Overall:</b>		
C/(N+I) overall	dB	10.1
C/(N+I) required	dB	6.5
System Margin	dB	3.6