

<b>Link Parameters</b>	<b>Units</b>	<b>6M33G7W</b>
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
User data rate	kbit/s	8448
Modulation		QPSK
Total coding rate		0.801
Carrier bandwidth	kHz	6330
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	68.0
Earth station diameter	m	4.5
Earth station gain	dBi	47.4
Uplink input power per carrier	dBW	20.6
Uplink input power density	dBW/Hz	-47.4
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	23.5
C/I XPOL, ACI, ASI	dB	14.8
C/(N+I) uplink	dB	14.2
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	31.4
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	19.3
C/I XPOL, ACI, IM, ASI	dB	12.6
C/(N+I) downlink	dB	9.4
<b>Overall:</b>		
C/(N+I) overall	dB	8.2
C/(N+I) required	dB	5.8
Margin	dB	2.4