

<b>Link Parameters</b>	<b>Units</b>	<b>6M33G7W</b>
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
User data rate	kbit/s	8448.0
Modulation		QPSK
Total coding rate		0.801
Carrier bandwidth	kHz	6330.0
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	57.2
Earth station diameter	m	4.5
Earth station gain	dBi	47.5
Uplink input power per carrier	dBW	9.7
Uplink input power density	dBW/Hz	-58.3
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	18.9
C/I XPOL, ACI, IM, ASI	dB	11.5
C/(N+I) uplink	dB	10.8
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	25.2
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	7.0
Earth station gain	dBi	47.5
Noise temperature	K	120.0
Earth station G/T	dB/K	26.7
C/N thermal downlink	dB	16.2
C/I XPOL, ACI, IM, ASI	dB	12.9
C/(N+I) downlink	dB	9.0
<b>Overall:</b>		
C/(N+I) overall	dB	6.8
C/(N+I) required	dB	5.8
System Margin	dB	1.0