

<b>Link Parameters</b>	<b>Units</b>	<b>48K6G7W</b>
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
User data rate	kbit/s	56
Modulation		QPSK
Total coding rate		0.691
Carrier bandwidth	kHz	48.6
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	50.5
Earth station diameter	m	4.5
Earth station gain	dBi	47.4
Uplink input power per carrier	dBW	3.1
Uplink input power density	dBW/Hz	-43.8
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	27.2
C/I XPOL, ACI, ASI	dB	17.9
C/(N+I) uplink	dB	17.4
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	13.9
Atmospheric loss	dB	0.1
Free space path loss	dB	196.1
Earth station diameter	m	2.4
Earth station gain	dBi	38.1
Noise temperature	K	100.0
Earth station G/T	dB/K	18.1
C/N thermal downlink	dB	17.5
C/I XPOL, ACI, IM, ASI	dB	10.6
C/(N+I) downlink	dB	9.8
<b>Overall:</b>		
C/(N+I) overall	dB	9.1
C/(N+I) required	dB	5.7
Margin	dB	3.4