

<b>Link Parameters</b>	<b>Units</b>	<b>5M50G7W</b>
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Carrier bandwidth	kHz	5500.0
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	62.0
Earth station diameter	m	4.5
Earth station gain	dBi	47.5
Uplink input power per carrier	dBW	14.5
Atmospheric loss	dB	0.2
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	-2.0
C/N thermal uplink	dB	21.0
C/I XPOL, ACI, IM, ASI	dB	18.3
C/(N+I) uplink	dB	16.5
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	28.6
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	20.3
C/I XPOL, ACI, IM, ASI	dB	20.1
C/(N+I) downlink	dB	15.8
<b>Overall:</b>		
C/(N+I) overall	dB	13.1
C/(N+I) required	dB	9.4
System Margin	dB	3.7