

Link Parameters	Units	48K6G7W
Uplink frequency	GHz	14.18
Downlink frequency	GHz	11.88
User data rate	kbit/s	56
Modulation		QPSK
Total coding rate		0.691
Carrier bandwidth	kHz	48.6
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	39.1
Earth station diameter	m	2.4
Earth station gain	dBi	49.2
Uplink input power per carrier	dBW	-10.1
Uplink input power density	dBW/Hz	-57.0
Atmospheric loss	dB	0.1
Free space path loss	dB	207.2
G/T satellite (-3 dB contour)	dB/K	3.0
C/N thermal uplink	dB	16.5
C/I XPOL, ACI, ASI	dB	21.7
C/(N+I) uplink	dB	15.4
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	18.5
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	1.8
Earth station gain	dBi	45.2
Noise temperature	K	120.0
Earth station G/T	dB/K	24.4
C/N thermal downlink	dB	18.8
C/I XPOL, ACI, IM, ASI	dB	12.1
C/(N+I) downlink	dB	11.3
Overall:		
C/(N+I) overall	dB	9.9
C/(N+I) required	dB	5.7
Margin	dB	4.2