

Link Parameters	Units	48K6G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
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	40.2
Earth station diameter	m	1.2
Earth station gain	dBi	43.2
Uplink input power per carrier	dBW	-3.0
Uplink input power density	dBW/Hz	-49.9
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	18.8
C/I XPOL, ACI, ASI	dB	15.0
C/(N+I) uplink	dB	13.5
Downlink:		
Satellite e.i.r.p. per carrier	dBW	21.6
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	1.2
Earth station gain	dBi	41.7
Noise temperature	K	120.0
Earth station G/T	dB/K	20.9
C/N thermal downlink	dB	18.4
C/I XPOL, ACI, IM, ASI	dB	11.6
C/(N+I) downlink	dB	10.8
Overall:		
C/(N+I) overall	dB	8.9
C/(N+I) required	dB	5.7
Margin	dB	3.2