

Link Parameters	Units	146KG7W
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Occupied bandwidth	kHz	145.9
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	45.0
Earth station diameter	m	4.5
Earth station gain	dB _i	47.5
Uplink input power per carrier	dBW	-2.5
Atmospheric loss	dB	0.2
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	4.8
C/N thermal uplink	dB	26.6
C/I XPOL, ACI, IM, ASI	dB	17.1
C/(N+I) uplink	dB	16.6
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	12.8
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	4.5
Earth station gain	dB _i	43.7
Noise temperature	K	80.0
Earth station G/T	dB/K	24.6
C/N thermal downlink	dB	18.1
C/I XPOL, ACI, IM, ASI	dB	15.2
C/(N+I) downlink	dB	11.8
Overall:		
C/(N+I) overall	dB	10.6
C/(N+I) required	dB	5.9
System Margin	dB	4.7