

Link Parameters	Units	146KG7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
Occupied bandwidth	kHz	145.9
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	39.9
Earth station diameter	m	1.2
Earth station gain	dBi	43.2
Uplink input power per carrier	dBW	-3.3
Atmospheric loss	dB	0.3
Free space path loss	dB	207.2
G/T satellite (-3dB contour)	dB/K	8.5
C/N thermal uplink	dB	17.8
C/I XPOL, ACI, IM, ASI	dB	17.0
C/(N+I) uplink	dB	14.4
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	21.0
Atmospheric loss	dB	0.2
Free space path loss	dB	205.7
Earth station diameter	m	2.4
Earth station gain	dBi	47.7
Noise temperature	K	110.0
Earth station G/T	dB/K	27.3
C/N thermal downlink	dB	19.3
C/I XPOL, ACI, IM, ASI	dB	17.4
C/(N+I) downlink	dB	14.2
Overall:		
C/(N+I) overall	dB	11.3
C/(N+I) required	dB	5.9
System Margin	dB	5.4