

Link Parameters	Units	614KG7W
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
Carrier bandwidth	kHz	614.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	55.7
Earth station diameter	m	4.5
Earth station gain	dBi	54.5
Uplink input power per carrier	dBW	1.2
Atmospheric loss	dB	0.3
Free space path loss	dB	207.0
G/T satellite (-3dB contour)	dB/K	5.0
C/N thermal uplink	dB	24.1
C/I XPOL, ACI, IM, ASI	dB	20.2
C/(N+I) uplink	dB	18.7
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	29.0
Atmospheric loss	dB	0.2
Free space path loss	dB	205.1
Earth station diameter	m	1.8
Earth station gain	dBi	44.6
Noise temperature	K	105.0
Earth station G/T	dB/K	24.4
C/N thermal downlink	dB	18.8
C/I XPOL, ACI, IM, ASI	dB	16.4
C/(N+I) downlink	dB	13.0
Overall:		
C/(N+I) overall	dB	11.9
C/(N+I) required	dB	5.7
System Margin	dB	6.2