

Link Parameters	Units	614KG7W
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Carrier bandwidth	kHz	614.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	51.7
Earth station diameter	m	4.5
Earth station gain	dBi	47.5
Uplink input power per carrier	dBW	4.2
Atmospheric loss	dB	0.2
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	-2.0
C/N thermal uplink	dB	20.2
C/I XPOL, ACI, IM, ASI	dB	17.4
C/(N+I) uplink	dB	15.6
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	18.4
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	3.7
Earth station gain	dBi	42.0
Noise temperature	K	90.0
Earth station G/T	dB/K	22.4
C/N thermal downlink	dB	15.3
C/I XPOL, ACI, IM, ASI	dB	15.2
C/(N+I) downlink	dB	10.9
Overall:		
C/(N+I) overall	dB	9.6
C/(N+I) required	dB	5.7
System Margin	dB	3.9