

<b>Link Parameters</b>	<b>Units</b>	<b>614KG7W</b>
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
Carrier bandwidth	kHz	614.0
<b>Uplink:</b>		
Nominal E/S e.i.r.p. per carrier	dBW	53.6
Earth station diameter	m	4.5
Earth station gain	dB <sub>i</sub>	54.5
Uplink input power per carrier	dBW	-0.9
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	22.0
C/I XPOL, ACI, IM, ASI	dB	19.1
C/(N+I) uplink	dB	17.3
<b>Downlink:</b>		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	29.5
Atmospheric loss	dB	0.2
Free space path loss	dB	205.1
Earth station diameter	m	1.8
Earth station gain	dB <sub>i</sub>	44.6
Noise temperature	K	105.0
Earth station G/T	dB/K	24.4
C/N thermal downlink	dB	19.3
C/I XPOL, ACI, IM, ASI	dB	16.7
C/(N+I) downlink	dB	13.3
<b>Overall:</b>		
C/(N+I) overall	dB	11.9
C/(N+I) required	dB	5.7
System Margin	dB	6.2