

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.280	6.280	6.280	6.280
Downlink Frequency	GHz	4.055	4.055	4.055	4.055
Carrier Allocated Bandwidth	kHz	346.0	461.0	1840.0	8250.0
<b>Uplink:</b>					
Noise BW (or energy dispersal for TV/FM)	kHz	256	341.3	1365.3	6111.3
Nominal E/S e.i.r.p. per carrier	dBW	52.5	55.0	63.6	67.3
Earth Station Diameter	m	4.5	7.2	11.0	4.5
Earth Station Gain	dBi	47.5	51.6	55.3	47.5
Uplink Input Power per Carrier	dBW	5.0	3.4	8.3	19.8
Free Space Loss	dB	200.2	200.2	200.2	200.2
G/T Satellite	dB/K	-8.0	-8.0	-8.0	-8.0
C/N Thermal Uplink	dB	18.8	20.1	22.6	19.8
C/I XPOL, ACI, IM, ASI	dB	18.5	19.7	22.3	19.5
C/(N+I) uplink	dB	15.6	16.9	19.5	16.7
<b>Downlink:</b>					
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	8.5	11.1	19.6	23.3
Max e.i.r.p. Density	dBW/4KHz	-6.6	-5.2	-2.8	-5.6
Max PFD	dBW/m2/4kHz	-168.7	-167.3	-164.9	-167.7
Free Space Loss	dB	196.8	196.8	196.8	196.8
Earth Station Diameter	m	4.5	6.3	4.5	4.5
Earth Station Gain	dBi	43.8	46.8	43.8	43.8
Noise Temperature	kHz	95.0	95.0	95.0	95.0
Earth Station G/T	dB/K	24.0	27.0	24.0	24.0
C/N Thermal Downlink	dB	10.2	14.6	14.1	11.3
C/I XPOL, ACI, IM, ASI	dB	14.3	18.6	18.1	15.3
C/(N+I) downlink	dB	8.8	13.1	12.6	9.8
<b>Adjacent satellite interference:</b>					
uplink input power dens @ 2 deg	dBW/Hz	-44	-44	-44	-44
downlink eirp dens @ 2 deg	dBW/Hz	-37	-37	-37	-37
C/I up	dB	21.47	22.72	25.30	22.49
C/I dn	dB	17.27	21.62	21.10	18.29
Aggregate C/I up	dB	18.47	19.72	22.30	19.49
Aggregate C/I dn	dB	14.27	18.62	18.10	15.29
<b>Overall:</b>					
C/(N+I) overall	dB	8.0	11.6	11.8	9.0
C/(N+I) required	dB	6.0	9.3	9.3	6.9
System Margin	dB	2.0	2.3	2.5	2.1

<b>36M0G7W</b>	<b>36M0F3F</b>
6.280	6.280
4.055	4.055
36000.0	36000.0
30000	2000.0
81.9	74.1
13.0	13.0
56.8	56.3
25.1	17.8
200.2	199.9
-8.0	-8.0
27.5	19.2
27.2	19.6
24.3	16.4
30.9	30.9
-4.9	6.9
-167.0	-155.2
196.8	196.8
3.8	6.3
42.4	46.9
95.0	95.0
22.6	27.1
10.6	14.3
14.6	19.3
9.1	13.1
-44	-45
-37	-38
30.18	22.59
17.58	22.29
27.18	19.59
14.58	19.29
9.0	11.4
6.9	10.0
2.1	1.4